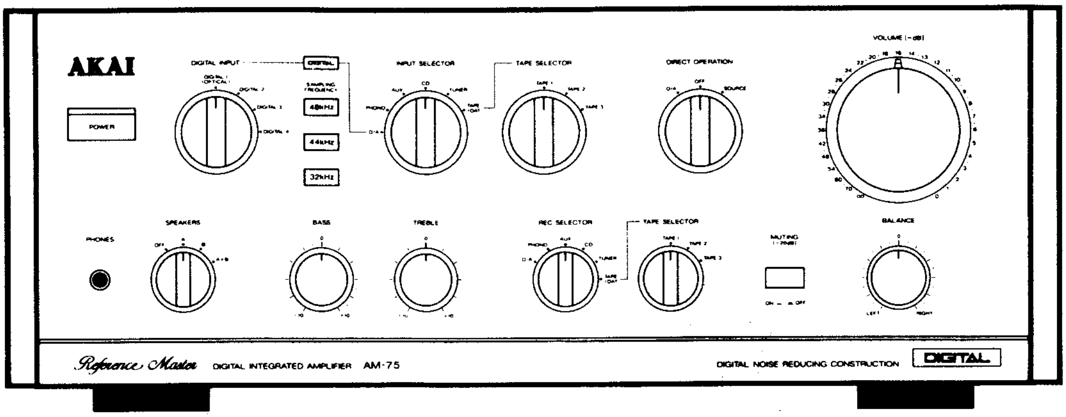
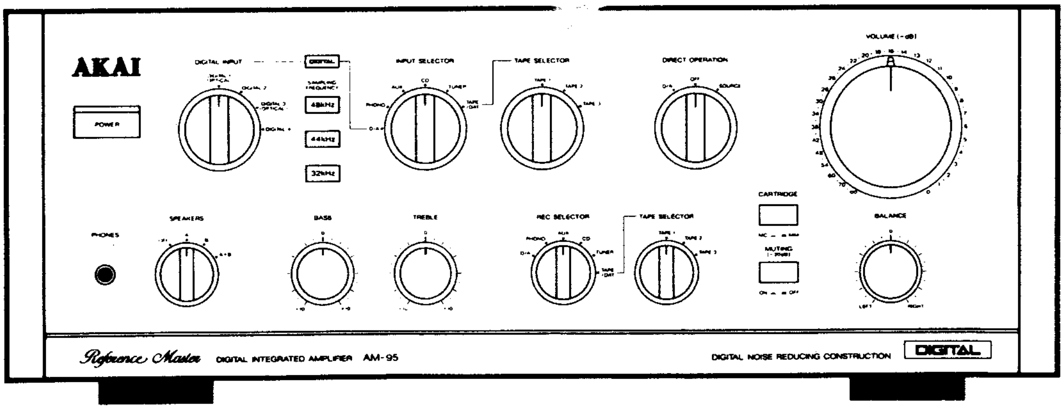
AKAI SERVICE MANUAL


AKAI
POWER
DIGITAL INPUT
INPUT SELECTOR
TAPE SELECTOR
DIRECT OPERATION
VOLUME (-dB)
DIGITAL
48kHz
44kHz
32kHz
PHONES
SPEAKERS
BASS
TREBLE
REC SELECTOR
MUTING
BALANCE
Reference Master DIGITAL INTEGRATED AMPLIFIER AM-75
DIGITAL NOISE REDUCING CONSTRUCTION

MODEL AM-75


AKAI
POWER
DIGITAL INPUT
INPUT SELECTOR
TAPE SELECTOR
DIRECT OPERATION
VOLUME (-dB)
DIGITAL
48kHz
44kHz
32kHz
PHONES
SPEAKERS
BASS
TREBLE
REC SELECTOR
CARTRIDGE
MUTING
BALANCE
Reference Master DIGITAL INTEGRATED AMPLIFIER AM-95
DIGITAL NOISE REDUCING CONSTRUCTION

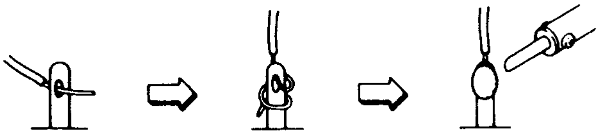
MODEL AM-95

DIGITAL INTEGRATED AMPLIFIER
MODEL AM-75
DIGITAL INTEGRATED AMPLIFIER
MODEL AM-95

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠ (*) symbol are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

★INFORMATION

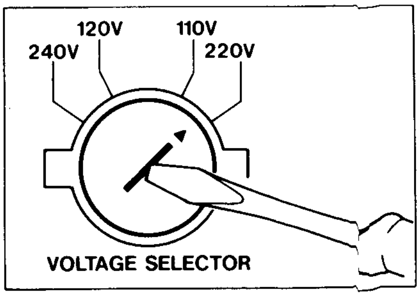
SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

VOLTAGE CONVERSION (U Model only)

Before connecting the power cord. Set the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



I. SPECIFICATIONS

1-1 MODEL AM-75

Power output	150W + 150W (DIN, 4ohms, 1kHz, 0.7%) 100W + 100W (FTC, 4ohms, 20Hz to 20kHz,0.1%)
Power band width	10Hz to 60kHz/1.0%
Total hamonic distortion	0.008% (1kHz, 8ohms)
Phono max. input level	250mV (MM)
Frequency responce	3Hz to 100kHz (+0dB,-3dB)
Tone control	
BASS	±10dB (100Hz)
TREBLE	±10dB (10kHz)
Input sensitivity/Impedance	
PHONO(MM)	2.5mV/47k ohms
TUNER, etc	150mV/47k ohms
	Output level/Impedance
Tape rec out	150mV/1k ohm
Damping factor	30(1kHz, 8ohms)
Residual noise	0.5mV
S/N	
PHONO(MM)	85dB
TUNER, etc	100dB
Channel separation	60dB
Audio mute	−20dB
Required speaker impedance	
A or B (A/B)	4 to 16 ohms
A and B (A+B)	8 to 16 ohms
Voltage convertible models	
A or B (A,B)	6 to 16 ohms
A and B (A+B)	12 to 16 ohms

D/A section	
Sampling frequency	32kHz/44.1kHz/48kHz
D/A converter	MASH (Multi-stage Noise Shaping) type
Digital input level/Impedance	
COAXIAL	0.5Vp-p/75ohms
OPTICAL	−14dBm to −23dBm
Frequency responce	5Hz to 20kHz (±0.3dB)
Dynamic range	95dB
Total harmonic distortion	0.003%
S/N	115dB
Power requirements	220V, 50Hz for Europe except UK 240V, 50HZ for UK and Australia 110V/120V/220V/240V, 50/60Hz convertible for other countries
Dimensions	461(W) × 177(H) × 452(D)mm (18.2 × 7.0 × 17.8 inches)
Weight	17.7 kg (38.9 lbs)

Standard accessories

Operator's manual	1

*** For improvement purposes, specifications and design are subject to change without notice.**

MC-Service

1-2 MODEL AM-95

Power output	180W + 180W (DIN, 4ohms, 1kHz, 0.7%) 180W + 180W (FTC, 4ohms, 20Hz to 20kHz,0.1%)
Power band width	10Hz to 60kHz/1.0%
Total hamonic distortion	0.008% (1kHz, 8ohms)
Phono max. input level	200mV (MM)
Frequency responce	3Hz to 100kHz (+0dB,-3dB)
Tone control	
BASS	±10dB (100Hz)
TREBLE	±10dB (10kHz)
Input sensitivity/Impedance	
PHONO(MM)	2.5mV/47k ohms
PHONO(MC)	0.25mV/100 Ohms
TUNER, etc	150mV/47k ohms
	Output level/Impedance
Tape rec out	150mV/1k ohm
Damping factor	30(1kHz, 8ohms)
Residual noise	0.5mV
S/N	
PHONO(MM)	85dB
PHONO(MC)	67dB
TUNER, etc	100dB
Channel separation	60dB
Audio mute	−20dB
Required speaker impedance	
A or B (A,B)	4 to 16 ohms
A and B (A+B)	8 to 16 ohms
Voltage convertible models	
A or B (A,B)	6 to 16 ohms
A and B (A+B)	12 to 16 ohms

D/A section	
Sampling frequency	32kHz/44.1kHz/48kHz
D/A converter	MASH (Multi-stage Noise Shaping) type
Digital input level/Impedance	
COAXIAL	0.5Vp-p/75ohms
OPTICAL	−14dBm to −23dBm
Frequency responce	5Hz to 20kHz (±0.3dB)
Dynamic range	95dB
Total harmonic distortion	0.003%
S/N	115dB
Power requirements	220V, 50Hz for Europe except UK 240V, 50HZ for UK and Australia 110V/120V/220V/240V, 50/60Hz convertible for other countries
Dimensions	461(W) × 177(H) × 452(D)mm (18.2 × 7.0 × 17.8 inches)
Weight	17.7 kg (44.0 lbs)

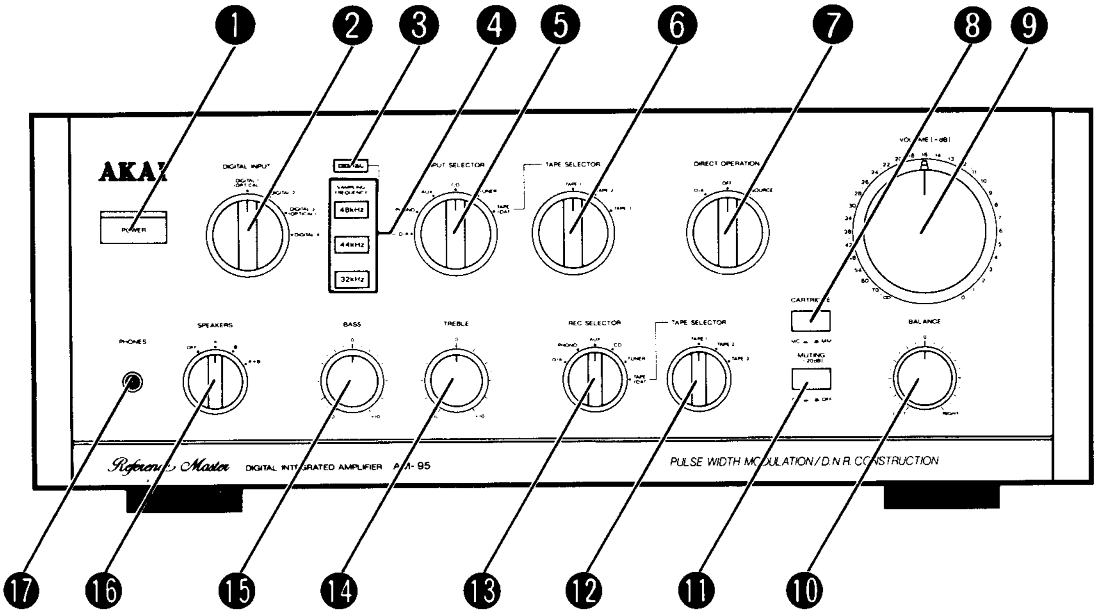
Standard accessories

Operator's manual	1

*** For improvement purposes, specifications and design are subject to change without notice.**

II. CONTROLS

2-1. FRONT PANEL


❶
❷
❸
❹
❺
❻
❼
❽
❾
AKAI
POWER
DIGITAL INPUT
DIGITAL
INPUT SELECTOR
TAPE SELECTOR
DIRECT OPERATION
VOLUME (-dB)
48kHz
44kHz
32kHz
PHONES
SPEAKERS
BASS
TREBLE
REC SELECTOR
TAPE SELECTOR
CARTRIDGE
MUTING
BALANCE
Reference Master DIGITAL INTEGRATED AMPLIFIER AM-95
PULSE WIDTH MODULATION/D.N.R. CONSTRUCTION
⓱
⓰
⓯
⓮
⓭
⓬
⓫
❿

❶ POWER Button and Indicator
To turn the power on and off.
The indicator will flash on and off when the speaker protection circuit is engaged.

❷ DIGITAL INPUT Switch (DIGITAL. 1 (OPTICAL), DIGITAL. 2/3(OPTICAL)/4)
To select the digital input source.

❸ DIGITAL Indicator
Tells you the INPUT SELECTOR switch or the DIRECT OPERATION switch is set to D/A.

❹ SAMPLING FREQUENCY Indicators (32 kHz/44 kHz/48 kHz)
Tells you the sampling frequency of the digital source being played back.

❺ INPUT SELECTOR Switch
To select the playback source you wish to listen to.

❻ TAPE SELECTOR Switch
To select the cassette deck or DAT deck being used for playback.

❼ DIRECT OPERATION Switch
To select the playback operation mode. If you wish to use the BASS, TREBLE or BALANCE controls, set the switch to OFF.

❽ CARTRIDGE (▬ MC/ ▄ MM) Switch (AM-95 ONLY)
To set the phono amplifier's gain to high or low according to which type of cartridge (MC or MM) is being used with the connected turntable.

❾ VOLUME Control (−dB: minus decibel)
To adjust the volume level. The 0 dB (zero decibel) position is the maximum volume output of the amplifier.

❿ BALANCE Control
To adjust the left and right channel balance.
Normally set the control to its center click position.

⓫ MUTING Switch (ON ▬ /OFF ▄)
To reduce the volume instantly during playback without using the VOLUME control.

⓬ TAPE SELECTOR Switch
To select the cassette deck or DAT deck being used for recording.

⓭ REC SELECTOR Switch
To select the playback source for recording.

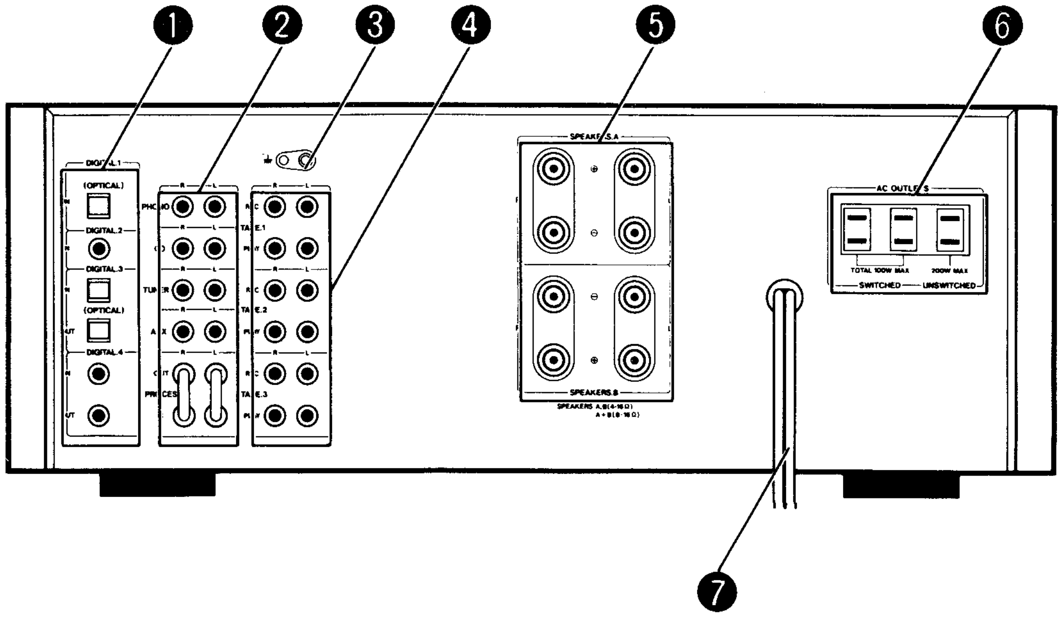
⓮ TREBLE Tone Control
To adjust the high note (treble) level. When set to 0, the control is ineffective.

⓯ BASS Tone Control
To adjust the low note (bass) level. When set to 0, the control is ineffective.

⓰ SPEAKERS Switch
To select the speaker system.
For headphone listening, set the switch to OFF. When using two pairs of speaker systems at the same time, set the switch to A+B.

⓱ PHONES Jack
For headphone listening.
Connect the headphone plug to the jack.

2-2. REAR PANEL



❶ **Digital Signal Connection Terminal and Jacks**
For connection of components with DIGITAL INPUT or OUTPUT jacks.

DIGITAL.1 (OPTICAL) IN Terminal and terminal cap
Use this terminal when connecting a CD player or DAT deck that has an optical output terminal. (Use an optical fiber cable available in Hi-Fi stores for connections).
DIGITAL. 2 IN Jack
Use this jack when connecting a CD player or DAT deck that has a digital coaxial output jack. (Use a digital or video connection cable available in Hi-Fi stores for connections).
DIGITAL. 3 (OPTICAL)
IN and OUT terminals and terminal caps.
DIGITAL. 4 IN and OUT Jacks
Use these jacks when connecting a DAT deck that has digital coaxial input and output jacks. (Use an optical, digital or video connection cable available in Hi-Fi stores for connections).
The DIGITAL OUT jack can be used for connection of a DAT deck for digital tape dubbing or a DSP (Digital Sound Processor).

❷ **Analog Connection Jacks**
These jacks are for conventional signal (analog) connections. The white PIN-jacks are for left channel connections and the red PIN-jacks are for right channel connections.

PHONO Jacks
Connect the output PIN-plug cord of a turntable to these jacks.
CD Jacks
Connect the OUTPUT jacks of a CD player to these jacks with an audio PIN-plug cord.
TUNER Jacks
Connect the OUTPUT jacks of a tuner to these jacks with an audio PIN-plug cord.
AUX Jacks
Connect the OUTPUT jacks of an auxiliary source such as a cassette deck, DAT deck or CD player to these jacks with an audio PIN-plug cord.
PROCESSOR IN and OUT Jacks/Short pins
For connection of a graphic equalizer or surround processor with an audio PIN-plug cord.
Remove the two short pins from these jacks before connecting. Leave these pins in place when a graphic equalizer or surround processor is not connected to these jacks.

❸ **⏚ (Earth) Terminal**
If your turntable has an earth wire, connect it to this terminal.

❹ **Analog Tape Connecting Jacks**
For connection of cassette decks or DAT decks that have analog OUTPUT and INPUT jacks.

TAPE. 1, TAPE. 2 and TAPE. 3 Jacks (REC/PLAY)
Connect the INPUT jacks of a cassette deck or DAT deck to the REC jacks with an audio PIN-plug cord.
Connect the OUTPUT jacks of a cassette deck or DAT deck to the PLAY jacks with an audio PIN-plug cord.

❺ **SPEAKERS A, B Terminals**
For speaker system connections. The A terminals correspond to the A position of the SPEAKERS switch and the B terminals correspond to the B position. Red terminals are the ⊕ (positive) terminals and black terminals are the ⊖ (negative) terminals.

❻ **AC OUTLETS (Voltage convertible models only)**
For connection of audio equipment power cords (tuner, CD player, cassette deck, DAT deck etc.).
The maximum connected power consumption is 300 Watts. Do not exceed the maximum power consumption indicated on the rear panel of the amplifier.
The UNSWITCHED outlets supply power when the power cord of the amplifier is connected to a household AC outlet. The power to the SWITCHED outlet is turned on and off by the amplifier's POWER switch.

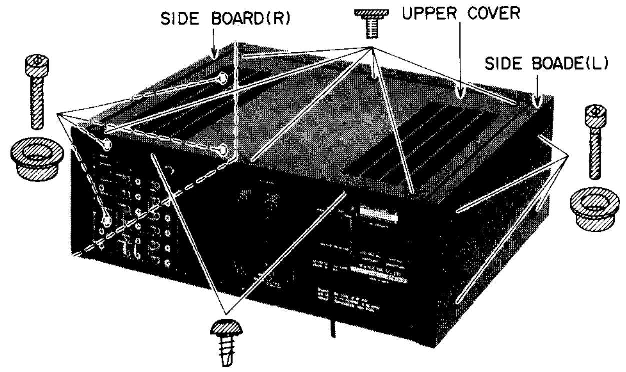
❼ **Power cord and plug**
Connect to a household AC outlet. If you wish to use an audio timer, connect the power cord to the timer's AC outlet.

III. DISASSEMBLY

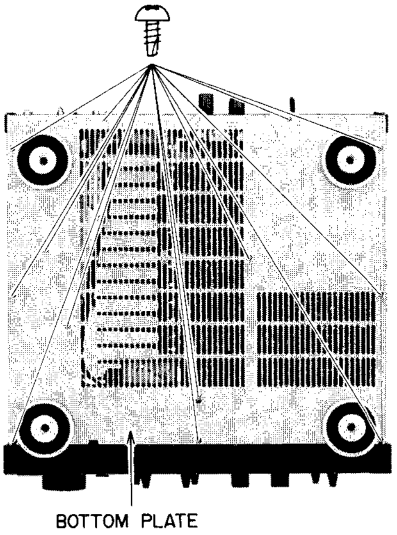
In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

* Photographs employed in this paragraphs are model AM-95

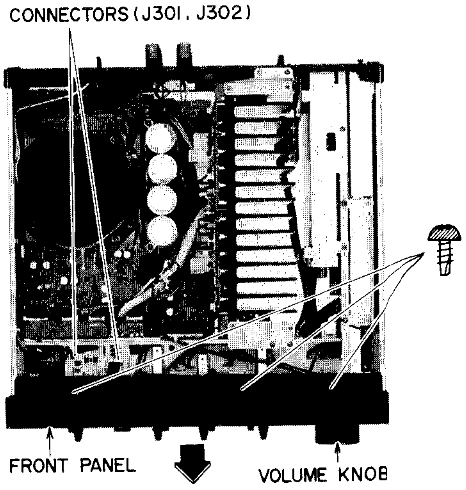
1. Removal of UPPER COVER


SIDE BOARD(R)
UPPER COVER
SIDE BOADE(L)

2. Removal of BOTTOM PLATE & FRONT PANEL


BOTTOM PLATE

3.


CONNECTORS (J301, J302)
FRONT PANEL
VOLUME KNOB

* Disconnect CONNECTORS (J301, J302) and remove VOLUME KNOB first, then remove FRONT PANEL next.

IV. PRINCIPAL PARTS LOCATION

MODEL AM-75

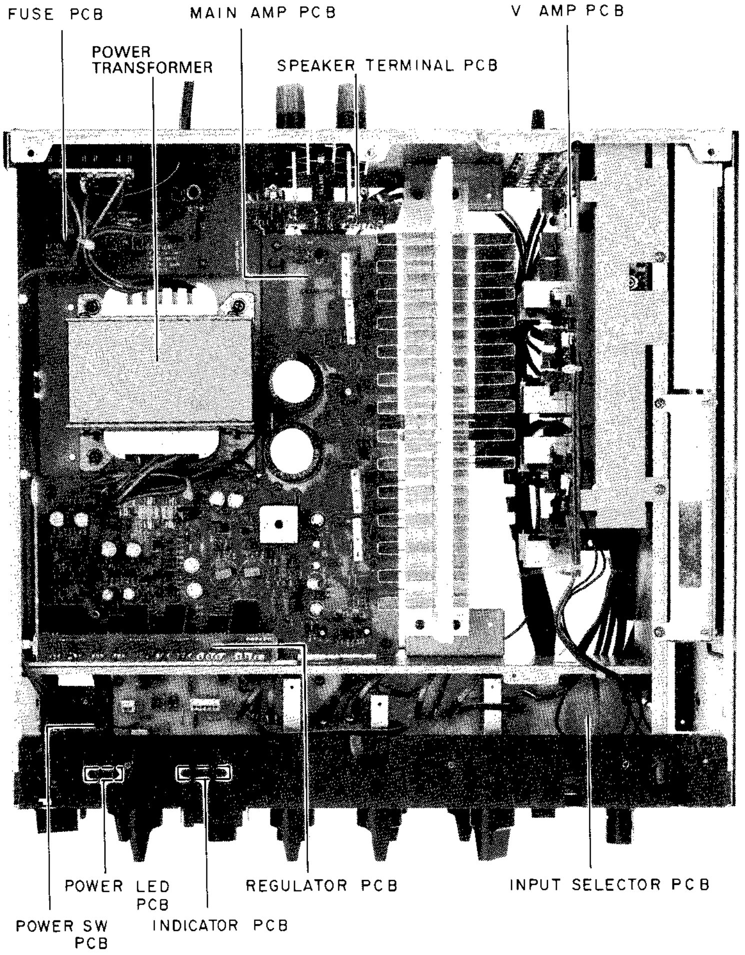

FUSE PCB
MAIN AMP PCB
V AMP PCB
POWER TRANSFORMER
SPEAKER TERMINAL PCB
POWER LED PCB
REGULATOR PCB
INPUT SELECTOR PCB
POWER SW PCB
INDICATOR PCB

Fig. 4-1 Top View

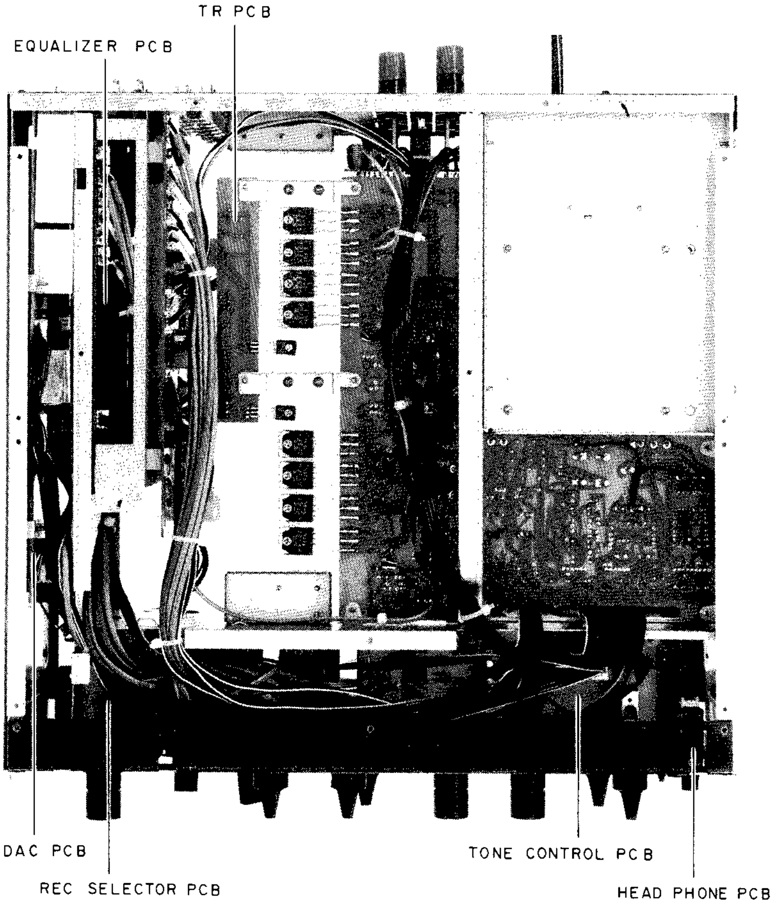

TR PCB
EQUALIZER PCB
DAC PCB
TONE CONTROL PCB
REC SELECTOR PCB
HEAD PHONE PCB

Fig. 4-2 Bottom View

MODEL AM-95

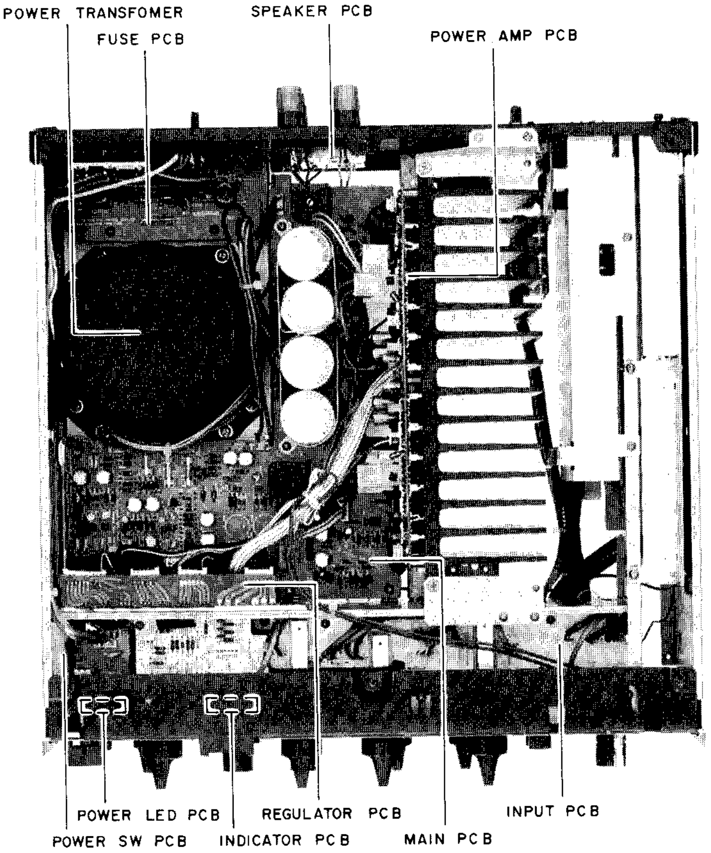

POWER TRANSFOMER
FUSE PCB
SPEAKER PCB
POWER AMP PCB
POWER LED PCB
POWER SW PCB
INDICATOR PCB
REGULATOR PCB
MAIN PCB
INPUT PCB

Fig. 4-3 Top View

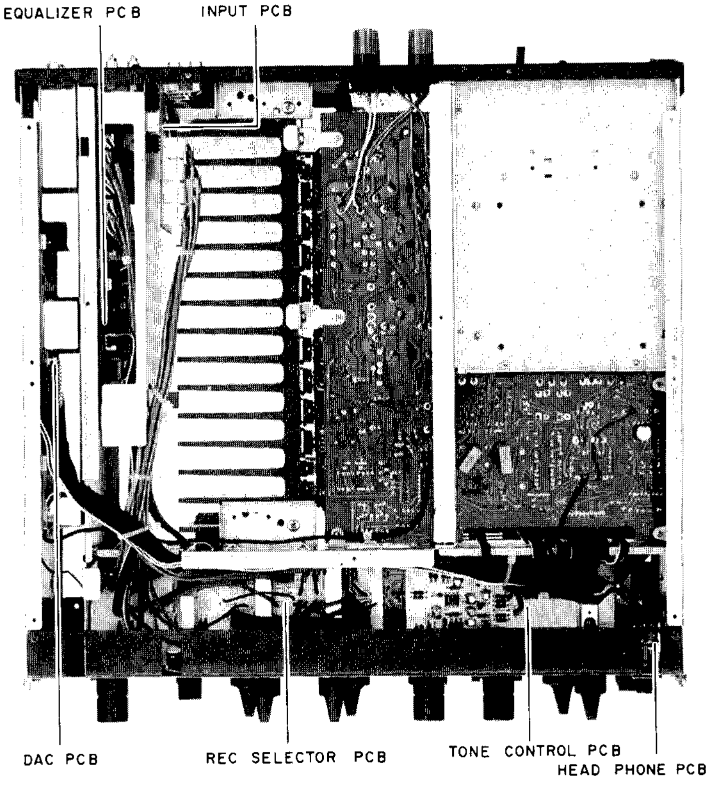

EQUALIZER PCB
INPUT PCB
DAC PCB
REC SELECTOR PCB
TONE CONTROL PCB
HEAD PHONE PCB

Fig. 4-4 Bottom View

V. ELECTRICAL ADJUSTMENT

5-1. MODEL AM-75

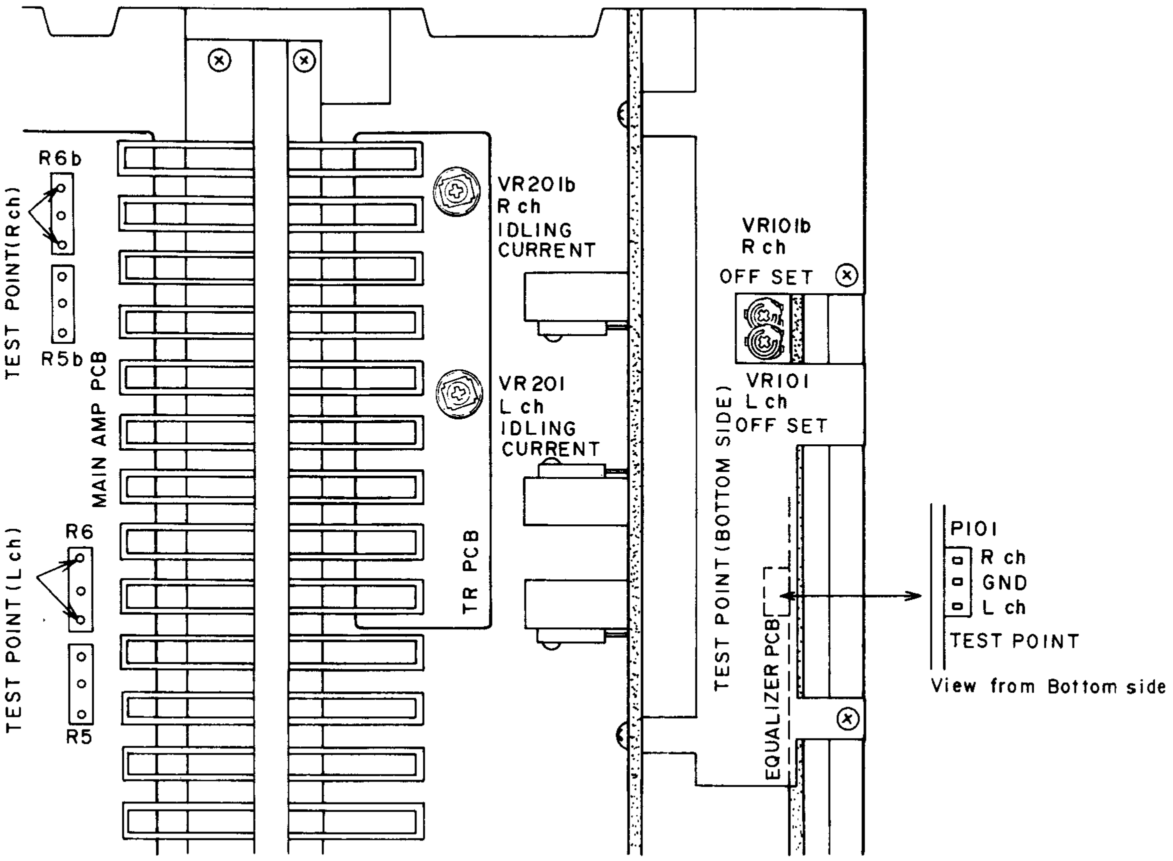

R6b
TEST POINT(R ch)
R5b
MAIN AMP PCB
R6
TEST POINT (L ch)
R5
VR201b
R ch
IDLING
CURRENT
VR201
L ch
IDLING
CURRENT
TR PCB
VR101b
R ch
OFF SET
VR101
L ch
OFF SET
TEST POINT (BOTTOM SIDE)
EQUALIZER PCB
P101
R ch
GND
L ch
TEST POINT
View from Bottom side

Fig. 5-1 Idling current, OFF-SET Adjustment parts and Test points

5-1-1. IDLING CURRENT ADJUSTMENT (Refer to Fig. 5-1)

NOTE: This adjustment should be made after 5 minutes passed from turning the power on.

1) Connect the Digital DC Voltmeter between both ends of cement type resistor R5 or R6 (L-CH), R5b or R6b (R-CH) on the MAIN AMP PCB.
2) Adjust VR201 (L-CH), VR201b (R-CH) on the TR PCB, so that the reading on the Digital DC Voltmeter is 30 mV.

5-1-2. OFF-SET ADJUSTMENT OF PHONO AMPLIFIER (Refer to Fig. 5-1)

NOTE: This adjustment should be made after 5 minutes passed from turning the power on.

1) Connect the Digital DC Voltmeter between Pin ① (L-CH), Pin ③ (R-CH) and Pin ② (GND) on the EQUALIZER PCB.
2) Adjust VR101 (L-CH), VR101b (R-CH) on the EQUALIZER PCB, so that the reading on the Digital DC Voltmeter is 0 V.

5-2. MODEL AM-95

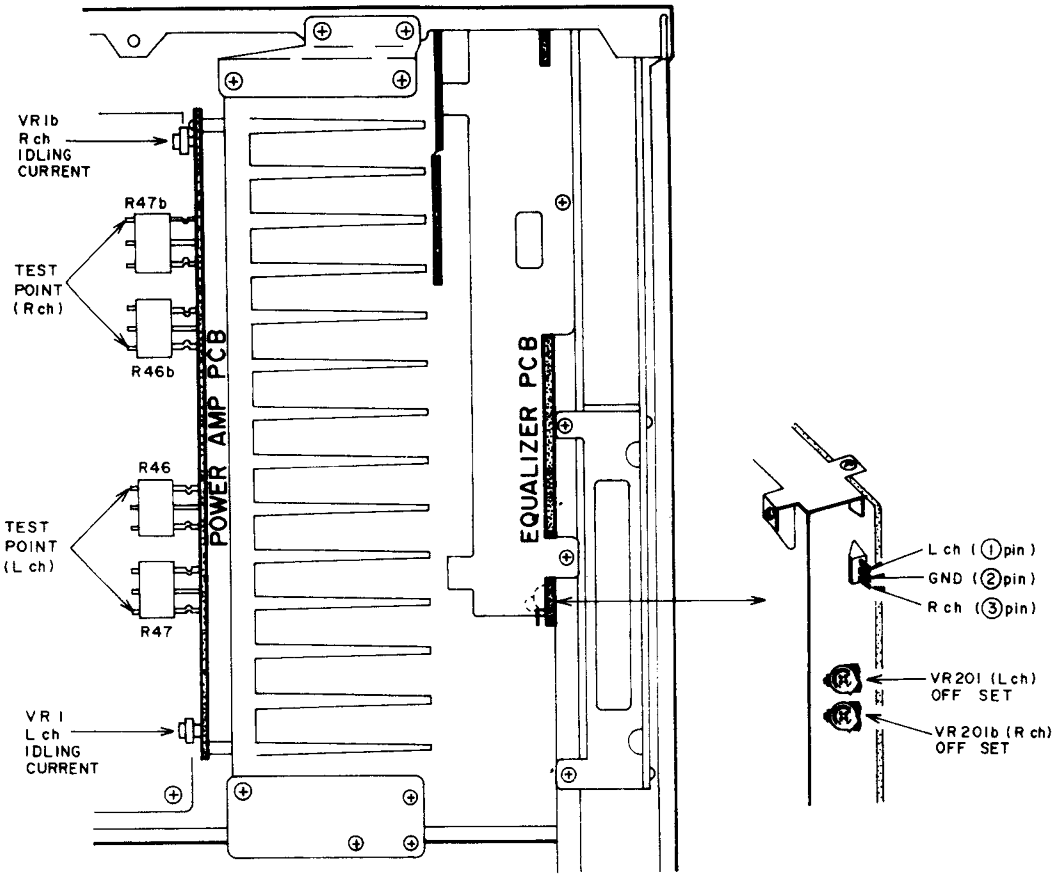

VR1b
R ch
IDLING
CURRENT
R47b
TEST
POINT
(R ch)
R46b
R46
TEST
POINT
(L ch)
R47
VR 1
L ch
IDLING
CURRENT
POWER AMP PCB
EQUALIZER PCB
L ch (①pin)
GND (②pin)
R ch (③pin)
VR201 (L ch)
OFF SET
VR201b (R ch)
OFF SET

Fig. 5-2 Idling current, OFF-SET Adjustment parts and Test points

5-2-1. IDLING CURRENT ADJUSTMENT (Refer to Fig. 5-2)

NOTE: This adjustment should be made immediately right after turning the power on.

1) Connect the digital DC voltmeter between both ends of cement type resistor R46 and R47 (L-CH), R46b and R47b (R-CH) on the POWER AMP PCB.
2) Adjust VR1 (L-CH), VR1b (R-CH) on the POWER AMP PCB so that the reading on the digital DC voltmis 20 mV ± 2 mV.

5-2-2. OFF-SET ADJUSTMENT OF PHONO AMPLIFIER (Refer to Fig. 5-2)

NOTE: This adjustment should be made after 5 minutes passed from turning the power on.

1) Connect the digital DC voltmeter between pin ① (L-CH) or pin ③ (R-CH) and pin ② (GND) on the EQUALIZER PCB.
2) Set the selector switches on the front panel as follow.
   INPUT SELECTOR: PHONO
   CARTRIDGE: MC
3) Adjust VR201 (L-CH), VR201b (R-CH) on the EQUALIZER PCB, so that the reading on the digital DC voltmeter is 0 V.

VI. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

MC-Service

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A]	AAL (U.S.A)	[S]	SAA (Australia)
[B]	BEAB (England)	[U]	U/T (Universa Area)
[C]	CSA (Canada)		
[E]	CEE (Europe)	[V]	VDE (W. Germany)
[J]	JPN (Janan)	[Y]	Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown inParts List by its Reference No.listed at right of Part No.

WARNING

⚠(*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommend Spare Part items listed below since they can cover m of the routine service.

Ref. No.	Part No.	Description
1	*BT-385573J	TRANS POW A2050(B) [B] [AM-95]
2	*BT-385572J	TRANS POW A2050(EV) [E,V] [AM-95]
3	*BT-385569J	TRANS POW A2050(U) [U] [AM-95]
4	*BT-379963J1	TRANS POW A2057(B) [B] [AM-75]
5	*BT-379962J1	TRANS POW A2057(EV) [E,V] [AM-75]
6	*BT-379958J	TRANS POW A2057(U) [U] [AM-75]
7	BT-368261	TRANS PULSE TC-1027-04
8	ED-382620J	D LED PG5562X GREEN [DIGITAL]
9	ED-382611J	D LED PY5504S YELLOW
10	ED-361885	D LED SLP-384C-51 GREEN [POWER]
11	ED-383034J	D LED SLR-54PC3F L,M GREEN
12	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
13	ED-348990	D SILICON H DS446
14	ED-301911	D SILICON H DS448
15	ED-385575J	D SILICON H 1SS182FA F10 [AM-95]
16	ED-624903	D SILICON H 1S2473
17	*ED-382668J	D SILICON PB-112F
18	ED-346557	D ZENER H HZ12A3L
19	ED-346560	D ZENER H HZ12B3L
20	ED-346564	D ZENER H HZ15-1L
21	ED-346570	D ZENER H HZ18-3L
22	ED-377933	D ZENER H HZ27-3LFA F10
23	ED-381270J	D ZENER H HZ33-1LFA F10
24	ED-305655	D ZENER H HZ4 B3
25	ED-343410	D ZENER H HZ6A1L
26	ED-346529	D ZENER H HZ6C2L
27	*EF-355226	FUSE BET T 250V 1.00A [B]
28	*EF-359086	FUSE BET T 250V 4.00A [B] [AM-75]
29	*EF-355399	FUSE BET T 250V 5.00A [B] [AM-95]
30	*EF-623103	FUSE SEMKO T 250V 1.00A [E,V]
31	*EF-690996	FUSE SEMKO T 250V 4.00A [E,V] [AM-75]
32	*EF-242605	FUSE SEMKO T 250V 6.30A [E,V] [AM-95]
33	*EF-306952	FUSE TSC A 250V 4.00A [U] [AM-75]
34	*EF-327103	FUSE TSC A 250V 500MA [U]
35	*EF-341260	FUSE TSC A 250V 8.00A [U] [AM-95]
36	*EF-309388	FUSE TSC A 250V 800MA [U]
37	EH-383070J	FILTER EMI BL01RN1-A62
38	EH-388140J	FILTER EMI BL02RN1-R62 [AM-75]
39	EI-390996J	IC FAR-18M432-D300
40	EI-345474	IC HA12002
41	EI-390995J	IC MN6471M
42	EI-344764	IC M5218P-21
43	EI-362587	IC M5238L
44	EI-362588	IC M5238P
45	EI-360225	IC NJM5532D
46	EI-390063J	IC PD0037
47	EI-360040J1	IC TC74HCU04AP
48	EI-360037J1	IC TC74HC00AP
49	EI-360027	IC TC74HC86P
50	EQ-379982J	RELAY POW G5R-2282P 2NO 48V [AM-95]
51	EQ-348929	RELAY SIG G5A-237P 2TR 12V [AM-95]
52	*ES-355407	SW PUSH ESB-99713V TV-8 [POWER SW]
53	ES-378941J	SW PUSH SPUL12 2-04-02S [MUTE]
54	ES-385576J	SW REMOTE B SWWR10 [AM-95]
55	ES-385553J	SW REMOTE O SPUR12 [AM-95]
56	ES-379984J	SW ROTARY SRRZS4 2-04-04N [DIGITAL INPUT]
57	ES-379987J	SW ROTARY SRRZS6 2-06-03N [TAPE SELECTOR]
58	ES-379986J	SW ROTARY SRRZS6 2-06-06N [INPUT SELECTOR]
59	ES-379988J	SW ROTARY SRRZS8 2-08-03N [DIRECT OPERATION]
60	*ES-349070	SW SELECTOR YKS11-0002 02-4 [U] [VOLTAGE SELECTOR]
61	ET-356336	TR DTA114ES
62	ET-360646	TR DTA143ES
63	ET-354371	TR DTC124ES
64	ET-357162	TR FET 2SJ74 GR,BL,V
65	ET-354897	TR FET 2SK170 BL,GR,V
66	*ET-359827	TR FET 2SK246 BL
67	ET-345460	TR 2SA1208 R,S,T
68	ET-348829	TR 2SA1209 S,T
69	*ET-345626	TR 2SA1248 S,T
70	*ET-385577J	TR 2SA1306 Y
71	ET-352726	TR 2SA1392 T,U
72	*ET-368758	TR 2SA1491 P,Y [AM-75]
73	*ET-385561J	TR 2SA1492 P,Y
74	ET-354601	TR 2SB941 P,Q
75	ET-308141	TR 2SC2603 G F05
76	ET-338410	TR 2SC2878 A,B
77	ET-370038	TR 2SC2910 S,T
78	ET-348831	TR 2SC2911 S,T
79	*ET-345625	TR 2SC3116 S,T
80	*ET-385557J	TR 2SC3298 Y
81	ET-360137	TR 2SC3330 U,V F05
82	ET-378524J	TR 2SC3383 S,T,U
83	*ET-368760	TR 2SC3855 P,Y [AM-75]
84	*ET-385559J	TR 2SC3856 P,Y
85	ET-371028	TR 2SD1266 P,Q
86	*ET-349459	TR 2SD1406 O,Y,GR
87	EV-379994J	VR ROTARY RK1631110 SPL W104 [BALANCE]
88	EV-379992J	VR ROTARY RK1631210 C104 X2 [BASS CONTROL]
89	EV-379993J	VR ROTARY RK1631210 C104 X2 [TREBLE CONTROL]
90	EV-387949J	VR ROTARY RK18114A0 A104 X4 [MAIN VOLUME]
91	*EW-363683	AC CORD 200 LCFL B100 A B [B]
92	*EW-363658	AC CORD 200 0129AVFF B100 A U/ [U]
93	*EW-363671	AC CORD 200 0364 LCFL B100 A E [E,V]

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1A	BA-A2057A020A	PC(#) MAIN BLK AM-73(U) [U] [AM-75]
1B	BA-A2057A020D	PC(#) MAIN BLK AM-73(E) [E,B] [AM-75]
1C	BA-A2057A020E	PC(#) MAIN BLK AM-73(V) [V] [AM-75]
1D	BA-A2050C020A	PC(#) MAIN BLK AM-93(U) [U] [AM-95]
1E	BA-A2050C020D	PC(#) MAIN BLK AM-93(E) [E,B] [AM-95]
1F	BA-A2050C020E	PC(#) MAIN BLK AM-93(V) [U] [AM-95]
2A	BA-A2057A030A	PC(#) VAMP BLK AM-73(U) [U,E,B] [AM-75]
2B	BA-A2057A030C	PC(#) VAMP BLK AM-73(V) [V] [AM-75]
3A	BA-A2050A070A	PC(#)POWER ANP BLK AM-93(U) [U] [AM-95]
3B	BA-A2050C070D	PC(#) POWER ANP BLK AM-93(E) [E,B] [AM-95]
3C	BA-A2050C070E	PC(#) POWER ANP BLK AM-93(V) [V] [AM-95]
4A	BA-A2057A040A	PC(#) INPUT BLK AM-73(U) [U,E,B] [AM-75]
4B	BA-A2057A040B	PC(#) INPUT BLK AM-73(V) [V] [AM-75]
4C	BA-A2057A040C	PC(#) INPUT BLK AM-93(U) [U,E,B] [AM-95]
4D	BA-A2057A040D	PC(#) INPUT BLK AM-93(V) [V] [AM-95]
5	BA-A2064C050A	PC DAC BLK AM-95
6A	BA-A2050A030A	PC PH AMP BLK AM-93(U) [U,E,B] [AM-95]
6B	BA-A2050C030B	PC PH AMP BLK AM-93(V) [V] [AM-95]

PC(#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD
- MAIN AMP P.C BOARD
- SPEAKER TERMINAL P.C BOARD
- INDICATOR P.C BOARD
- POWER LED P.C BOARD
- HEADPHONE P.C BOARD
- REGULATOR P.C BOARD
- FUSE P.C BOARD (AM-75 ONLY)
- POWER SW P.C BOARD (AM-75 ONLY)
- TAPE P.C BOARD (AM-95 ONLY)

PC(#) POWER AMP BLK CONSISTS OF FOLLOWING P.C BOARD
- POWER P.C BOARD
- FUSE P.C BOARD
- POWER SW P.C BOARD
- TR P.C BOARD

PC (#) V AMP BLK CONSISTS OF FOLLOWING P.C BOARD
- V AMP P.C BOARD
- EQUALIZER P.C BOARD
- TR P.C BOARD

PC(#) INPUT BLK CONSISTS OF FOLLOWING P.C BOARD
- INPUT P.C BOARD
- TONE CONTROL P.C BOARD
- REC SELECTOR P.C BOARD

3. MAIN AMP P.C BOARD

Ref. No.	Part No.	Description
C1	EC-387907J	C EC V SNP 103M 63.0DC
C2	EC-387907J	C EC V SNP 103M 63.0DC
C30A	EC-377960	C PP V F05 CSF3 101J 125DC [AM-75]
C30B	EC-368039	C PP V F05 CSF3 221J 125DC [AM-95]
D1	*ED-382668J	D SILICON PB-112F
D2	ED-348990	D SILICON H DS446
D3	ED-348990	D SILICON H DS446
D4A	ED-348990	D SILICON H DS446 [AM-75]
D4B	ED-385575J	D SILICON H 1SS182FA F10 [AM-95]
D5A	ED-348990	D SILICON H DS446 [AM-75]
D5B	ED-385575J	D SILICON H 1SS182FA F10 [AM-95]
D6	ED-348990	D SILICON H DS446
D7	ED-301911	D SILICON H DS448
D8	ED-301911	D SILICON H DS448
D9	ED-301911	D SILICON H DS448
D10	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D11	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D12	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D13	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D14	ED-383034J	D LED SLR-54PC3F L,M GREEN
D15	ED-383034J	D LED SLR-54PC3F L,M GREEN
D16	ED-377933	D ZENER H HZ27-3LFA F10
D17	ED-377933	D ZENER H HZ27-3LFA F10
D18	ED-377933	D ZENER H HZ27-3LFA F10
D19	ED-377933	D ZENER H HZ27-3LFA F10
D20	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D21	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D22	ED-383034J	D LED SLR-54PC3F L,M GREEN
D23	ED-383034J	D LED SLR-54PC3F L,M GREEN
D24	ED-381270J	D ZENER H HZ33-1LFA F10
D25	ED-381270J	D ZENER H HZ33-1LFA F10
D26	ED-381270J	D ZENER H HZ33-1LFA F10
D27	ED-381270J	D ZENER H HZ33-1LFA F10
D28	ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D29	ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D30	ED-383034J	D LED SLR-54PC3F L,M GREEN
D31	ED-383034J	D LED SLR-54PC3F L,M GREEN
D32	ED-346564	D ZENER H HZ15-1L
D33	ED-346564	D ZENER H HZ15-1L
D34	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D35	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D36	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D37	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D38	ED-382611J	D LED PY5504S YELLOW
D39	ED-382611J	D LED PY5504S YELLOW
D40	ED-346557	D ZENER H HZ12A3L
D41	ED-346557	D ZENER H HZ12A3L
D42	ED-346529	D ZENER H HZ6C2L
D43	ED-346560	D ZENER H HZ12B3L
D44	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D45	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D46	ED-301911	D SILICON H DS448
D47	ED-301911	D SILICON H DS448
D101	ED-348990	D SILICON H DS446 [AM-95]
D102	ED-348990	D SILICON H DS446 [AM-95]
D103	ED-348990	D SILICON H DS446 [AM-95]
D104	ED-348990	D SILICON H DS446 [AM-95]
FL1	EH-388140J	FILTER EMI BL02RN1-R62 [AM-75]
FL2	EH-388140J	FILTER EMI BL02RN1-R62 [AM-75]
FL3	EH-388140J	FILTER EMI BL02RN1-R62 [AM-75]
IC1	EI-345474	IC HA12002

Ref. No.	Part No.	Description
L101	EO-332116	COIL FIX 2 103AK-006A 2R2K [AM-95]
RL101	EQ-379982J	RELAY POW G5R-2282P 2NO 48V [AM-95]
RL102	EQ-379982J	RELAY POW G5R-2282P 2NO 48V [AM-95]
RL103	EQ-348929	RELAY SIG G5A-237P 2TR 12V [AM-95]
R1	ER-382671J	R CB H S10 FS RDS 1/4W 6R8J [AM-75]
R2	ER-382671J	R CB H S10 FS RDS 1/4W 6R8J [AM-75]
R3	ER-382671J	R CB H S10 FS RDS 1/4W 6R8J [AM-75]
R4	ER-382671J	R CB H S10 FS RDS 1/4W 6R8J [AM-75]
R5	ER-368226	R CT P R33+R33 5W [AM-75]
R6	ER-368226	R CT P R33+R33 5W [AM-75]
R15	ER-372991	R CB H S10 FS RDS 1/4W 101J [AM-75]
R18	ER-381264J	R OMF H S20 FS 3W 332J
R22	ER-378499J	R CB H S10 FS RDS 1/4W 100J
R33	ER-382613J	R CB H S10 FS RDS 1/4W 331J
R34	ER-382613J	R CB H S10 FS RDS 1/4W 331J
R39	ER-382613J	R CB H S10 FS RDS 1/4W 331J
R40	ER-382613J	R CB H S10 FS RDS 1/4W 331J
R43	ER-324185	R CB H S10 FS RDS 1/4W 221J
R44	ER-324185	R CB H S10 FS RDS 1/4W 221J
R45	ER-378846J	R CB H S10 FS RDS 1/4W 102J
R49	ER-324185	R CB H S10 FS RDS 1/4W 221J
R50	ER-324185	R CB H S10 FS RDS 1/4W 221J
R51	ER-381265J	R OMF H S20 FS 3W 561J
R52	ER-381265J	R OMF H S20 FS 3W 561J
R54	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R55	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R56	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R57	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R58	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R59	ER-382614J	R CB H S10 FS RDS 1/4W 2R2J
R101	ER-333023	R OMF H S20 FS 2W 100J [AM-95]
R102	ER-333023	R OMF H S20 FS 2W 100J [AM-95]
R103	ER-381265J	R OMF H S20 FS 3W 561J [AM-95]
TR1	ET-378524J	TR 2SC3383 S,T,U
TR3	ET-345460	TR 2SA1208 R,S,T
TR4	ET-360137	TR 2SC3330 U,V F05
TR5	ET-360137	TR 2SC3330 U,V F05
TR6	ET-345460	TR 2SA1208 R,S,T
TR7	ET-370038	TR 2SC2910 S,T
TR8	ET-345460	TR 2SA1208 R,S,T
TR9	ET-370038	TR 2SC2910 S,T
TR10	ET-352726	TR 2SA1392 T,U
TR11	ET-378524J	TR 2SC3383 S,T,U
TR12	✱ET-345460	TR 2SA1208 R,S,T
TR13	✱ET-370038	TR 2SC2910 S,T
TR14	✱ET-359827	TR FET 2SK246 BL
TR15	✱ET-349459	TR 2SD1406 O,Y,GR
TR901	✱ET-368760	TR 2SC3855 P,Y [AM-75]
TR902	✱ET-368760	TR 2SC3855 P,Y [AM-75]
TR903	✱ET-368758	TR 2SA1491 P,Y [AM-75]
TR904	✱ET-368758	TR 2SA1491 P,Y [AM-75]
F3A	✱EF-327103	FUSE TSC A 250V 500MA [U]
F3B	✱EF-623103	FUSE SEMKO T 250V 1.00A [E,V]
F3C	✱EF-355226	FUSE BET T 250V 1.00A [B]
F4A	✱EF-327103	FUSE TSC A 250V 500MA [U]

Ref. No.	Part No.	Description
F4B	✱EF-623103	FUSE SEMKO T 250V 1.00A [E,V]
F4C	✱EF-355226	FUSE BET T 250V 1.00A [B]
F5A	✱EF-309388	FUSE TSC A 250V 800MA [U]
F5B	✱EF-623103	FUSE SEMKO T 250V 1.00A [E,V]
F5C	✱EF-355226	FUSE BET T 250V 1.00A [B]

4. SPEAKER TERMINAL P.C BOARD

Ref. No.	Part No.	Description
D101	ED-348990	D SILICON H DS446 [AM-75]
D102	ED-348990	D SILICON H DS446 [AM-75]
D103	ED-348990	D SILICON H DS446 [AM-75]
D104	ED-348990	D SILICON H DS446 [AM-75]
FL101	EH-388140J	FILTER EMI BL02RN1-R62 [V] [AM-75]
FL102	EH-388140J	FILTER EMI BL02RN1-R62 [V] [AM-75]
L101	EO-332116	COIL FIX 2 103AK-006A 2R2K [AM-75]
RL101	EQ-379982J	RELAY POW G5R-2282P 2NO 48V [AM-75]
RL102	EQ-379982J	RELAY POW G5R-2282P 2NO 48V [AM-75]
RL103	EQ-348929	RELAY SIG G5A-237P 2TR 12V [AM-75]
R101	ER-381266J	R OMF H S20 FS 3W 100J [AM-75]
R102	ER-381266J	R OMF H S20 FS 3W 100J [AM-75]
R103	ER-381265J	R OMF H S20 FS 3W 561J [AM-75]
TM901	EJ-379983J	TERMINAL W/SCREW YKD31 -0338 8P [SPEAKER TERMINAL]

5. FUSE P.C BOARD

Ref. No.	Part No.	Description
L301A	EO-332116	COIL FIX 2 103AK-006A 2R2K [EXCEPT AM-95V]
L301B	EO-388137J	COIL FIX 2 103AK-006B 6R6K [V] [AM-95]
L302A	EO-332116	COIL FIX 2 103AK-006A 2R2K [U] [AM-95]
L302B	EO-388137J	COIL FIX 2 103AK-006B 6R6K [V] [AM-95]
F1A	✱EF-306952	FUSE TSC A 250V 4.00A [U] [AM-75]
F1B	✱EF-341260	FUSE TSC A 250V 8.00A [U] [AM-95]
F1C	✱EF-690996	FUSE SEMKO T 250V 4.00A [E,V] [AM-75]
F1D	✱EF-242605	FUSE SEMKO T 250V 6.30A [E,V] [AM-95]
F1E	✱EF-359086	FUSE BET T 250V 4.00A [B] [AM-75]
F1F	✱EF-355399	FUSE BET T 250V 5.00A [B] [AM-95]
F2A	✱EF-306952	FUSE TSC A 250V 4.00A [U] [AM-75]
F2B	✱EF-341260	FUSE TSC A 250V 8.00A [U] [AM-95]
1	EX-388136J	THERMISTOR 3D-22 [E,B,V] [AM-95]

6. TAPE P.C BOARD (AM-95)

Ref. No.	Part No.	Description
J1	EJ-336904	PIN J AJC-036-ACB P 6P [PLAY]
J2	EJ-336904	PIN J AJC-036-ACB P 6P [REC]

7. POWER SW P.C BOARD

Ref. No.	Part No.	Description
C401A	*EC-320548	C CE V F 103Z 250AC [U]
C401B	*EC-338496	C CE V DE7 FZ 472P 400AC [E,B]
C401C	*EH-386991J	SPARK QUENCHER XE120033 [V]
SW1	*ES-355407	SW PUSH ESB-99713V TV-8 [POWER SW]

8. INDICATOR P.C BOARD

Ref. No.	Part No.	Description
D501	ED-382620J	D LED PG5562X GREEN [DIGITAL]
D502	ED-382620J	D LED PG5562X GREEN [48KHZ]
D503	ED-382620J	D LED PG5562X GREEN [44KHZ]
D504	ED-382620J	D LED PG5562X GREEN [32KHZ]

9. POWER LED P.C BOARD

Ref. No.	Part No.	Description
D601	ED-361885	D LED SLP-384C-51 GREEN [POWER]
D602	ED-361885	D LED SLP-384C-51 GREEN [POWER]

10. HEADPHONE P.C BOARD

Ref. No.	Part No.	Description
J701	EJ-369995	PHONE J 3P HLJ0540-410 GP 6.3 [PHONES]

11. REGULATOR P.C BOARD

Ref. No.	Part No.	Description
TR801	*ET-385557J	TR 2SC3298 Y
TR802	*ET-385577J	TR 2SA1306 Y
TR803	*ET-345625	TR 2SC3116 S,T
TR804	*ET-345626	TR 2SA1248 S,T
TR805	*ET-345625	TR 2SC3116 S,T
TR806	*ET-345626	TR 2SA1248 S,T
TR807	*ET-345625	TR 2SC3116 S,T
TR808	*ET-345626	TR 2SA1248 S,T
TR809	*ET-345625	TR 2SC3116 S,T

12. POWER AMP P.C BOARD (AM-95)

Ref. No.	Part No.	Description
C1	EC-377960	C PP V F05 CSF3 101J 125DC
C10	EC-347375	C MC V F05 FE92 220J 500DC
C11	EC-347375	C MC V F05 FE92 220J 500DC
D1	ED-385575J	D SILICON H 1SS182FA F10
D2	ED-385575J	D SILICON H 1SS182FA F10
D3	ED-305655	D ZENER H HZ4 B3
D4	ED-305655	D ZENER H HZ4 B3
FL101	EH-383070J	FILTER EMI BL01RN1-A62
FL102	EH-383070J	FILTER EMI BL01RN1-A62
FL103	EH-383070J	FILTER EMI BL01RN1-A62
FL104	EH-383070J	FILTER EMI BL01RN1-A62
IC1	EI-362587	IC M5238L
R35	ER-378846J	R CB H S10 FS RDS 1/4W 102J
R37	ER-372991	R CB H S10 FS RDS 1/4W 101J
R38	ER-372991	R CB H S10 FS RDS 1/4W 101J
R39	ER-324186	R CB H S10 FS RDS 1/4W 681J
R40	ER-383007J	R OMF H S12 FS 1W 1R0J
R41	ER-383007J	R OMF H S12 FS 1W 1R0J
R42	ER-383007J	R OMF H S12 FS 1W 1R0J
R43	ER-383007J	R OMF H S12 FS 1W 1R0J
R44	ER-355214	R OMF H S15 FS 2W 151J
R46	ER-368226	R CT P R33+R33 5W
R47	ER-368226	R CT P R33+R33 5W
TR1	ET-354897	TR FET 2SK170 BL,GR,V
TR2	ET-357162	TR FET 2SJ74 GR,BL,V
TR3	ET-370038	TR 2SC2910 S,T
TR4	ET-345460	TR 2SA1208 R,S,T
TR5	ET-345460	TR 2SA1208 R,S,T
TR6	ET-370038	TR 2SC2910 S,T
TR7	ET-345460	TR 2SA1208 R,S,T
TR8	ET-345460	TR 2SA1208 R,S,T
TR9	ET-370038	TR 2SC2910 S,T
TR10	ET-370038	TR 2SC2910 S,T
TR11	ET-308141	TR 2SC2603 G F05
TR13	ET-370038	TR 2SC2910 S,T
TR14	ET-345460	TR 2SA1208 R,S,T
TR15	*ET-385557J	TR 2SC3298 Y
TR16	*ET-385577J	TR 2SA1306 Y
TR17	*ET-385559J	TR 2SC3856 P,Y
TR18	*ET-385559J	TR 2SC3856 P,Y
TR19	*ET-385561J	TR 2SA1492 P,Y
TR20	*ET-385561J	TR 2SA1492 P,Y
VR1	EV-330369	R S-FIX H RH1051C 0.15W222

13. V AMP P.C BOARD (AM-75)

Ref. No.	Part No.	Description
IC1	EI-362588	IC M5238P
J1	EJ-336904	PIN J AJC-036-ACB P 6P [TAPE]
J2	EJ-336904	PIN J AJC-036-ACB P 6P [TAPE]
R28	ER-378498J	R CB H S10 FS RDS 1/4W 682J
R36	ER-378499J	R CB H S10 FS RDS 1/4W 100J
R37	ER-378499J	R CB H S10 FS RDS 1/4W 100J
R45	ER-382603J	R CB H S10 FS RDS 1/4W 471J
R46	ER-382603J	R CB H S10 FS RDS 1/4W 471J
R47	ER-382603J	R CB H S10 FS RDS 1/4W 471J
TR1	ET-354897	TR FET 2SK170 BL,GR,V
TR2	ET-357162	TR FET 2SJ74 GR,BL,V
TR3	ET-370038	TR 2SC2910 S,T
TR4	ET-345460	TR 2SA1208 R,S,T
TR5	ET-345460	TR 2SA1208 R,S,T
TR6	ET-370038	TR 2SC2910 S,T
TR7	ET-370038	TR 2SC2910 S,T
TR8	ET-370038	TR 2SC2910 S,T
TR9	ET-345460	TR 2SA1208 R,S,T
TR10	ET-370038	TR 2SC2910 S,T
TR11	ET-348829	TR 2SA1209 S,T
TR12	ET-348831	TR 2SC2911 S,T
TR13	ET-348831	TR 2SC2911 S,T
TR14	ET-348829	TR 2SA1209 S,T
TR15	ET-345625	TR 2SC3116 S,T
TR16	ET-345626	TR 2SA1248 S,T

14. EQUALIZER P.C BOARD (AM-75)

Ref. No.	Part No.	Description
D101	ED-383034J	D LED SLR-54PC3F L,M GREEN
D102	ED-343410	D ZENER H HZ6A1L
D103	ED-343410	D ZENER H HZ6A1L
J101	EJ-336904	PIN J AJC-036-ACB P 6P [PHONO/CD/TUNER]
J102	EJ-336904	PIN J AJC-036-ACB P 6P [AUX/PROCESSOR]
R127	ER-382604J	R CB H S10 FS RDS 1/4W 390J
R128	ER-382604J	R CB H S10 FS RDS 1/4W 390J
TR101	ET-354897	TR FET 2SK170 BL,GR,V
TR102	ET-357162	TR FET 2SJ74 GR,BL,V
TR103	ET-352726	TR 2SA1392 T,U
TR104	ET-378524J	TR 2SC3383 S,T,U
TR105	ET-378524J	TR 2SC3383 S,T,U
TR106	ET-352726	TR 2SA1392 T,U
VR101	EV-360948	R S-FIX V RVF8W01 0/10W 104

15. TR P.C BOARD (AM-75)

Ref. No.	Part No.	Description
D201	ED-301911	D SILICON H DS448
TR905	ET-348831	TR 2SC2911 S,T
VR201	EV-346380	R S-FIX H RH1051C 0.15W 332

16. TR P.C BOARD (AM-95)

Ref. No.	Part No.	Description
TR12	ET-348829	TR 2SA1209 S,T

17. EQUALIZER P.C BOARD (AM-95)

Ref. No.	Part No.	Description
C102	EC-334015	C EC V CUT NP SM 102M 6.3DC
C150	EC-347408	C MC V F05 FE92 101J 500DC
C201	EC-382572J	C PC MKC1862 334K 100DC
D101	ED-301911	D SILICON H DS448
D102	ED-301911	D SILICON H DS448
D301	ED-346570	D ZENER H HZ18-3L
D302	ED-346570	D ZENER H HZ18-3L
FL101	EH-383070J	FILTER EMI BL01RN1-A62
FL102	EH-383070J	FILTER EMI BL01RN1-A62
IC201	EI-362588	IC M5238P
J101	EJ-336904	PIN J AJC-036-ACB P 6P [PHONO/CD/TUNER]
J102	EJ-336904	PIN J AJC-036-ACB P 6P [AUX/PROCESSOR]
L101	EO-353587	COIL FIX 1 LAP02 F05 220K
L102	EO-353587	COIL FIX 1 LAP02 F05 220K
R127	ER-382604J	R CB H S10 FS RDS 1/4W 390J
R128	ER-382604J	R CB H S10 FS RDS 1/4W 390J
R301	*ER-338000	R FUSE H S10 ERD2FC 1/4W 2200G
R302	*ER-338000	R FUSE H S10 ERD2FC 1/4W 2200G
SW101	ES-385552J	SW REMOTE S SSSR24 [CARTRIDGE]
TR101	ET-354897	TR FET 2SK170 BL,GR,V
TR102	ET-357162	TR FET 2SJ74 GR,BL,V
TR103	ET-352726	TR 2SA1392 T,U
TR104	ET-378524J	TR 2SC3383 S,T,U
TR105	ET-378524J	TR 2SC3383 S,T,U
TR106	ET-352726	TR 2SA1392 T,U
TR201	ET-353899	TR 2SA1317 S,T,U
TR202	ET-360137	TR 2SC3330 U,V F05
TR301	ET-371028	TR 2SD1266 P,Q
TR302	ET-354601	TR 2SB941 P,Q
VR201	EV-347942	R S-FIX V RVF8W01 0.10 502

18. INPUT P.C BOARD

Ref. No.	Part No.	Description
D1	ED-343410	D ZENER H HZ6A1L
SW301	ES-379986J	SW ROTARY SRRZS6 2-06-06N [INPUT SELECTOR]
SW302	ES-379987J	SW ROTARY SRRZS6 2-06-03N [TAPE SELECTOR]
SW303	ES-379988J	SW ROTARY SRRZS8 2-08-03N [DIRECT OPERATION]
SW304	ES-379984J	SW ROTARY SRRZS4 2-04-04N [DIGITAL INPUT]
TR1	ET-360646	TR DTA143ES
TR2	ET-360646	TR DTA143ES
TR3	ET-360646	TR DTA143ES
VR1	EV-387949J	VR ROTARY RK18114A0 A104-X4 [MAIN VOLUME]

19. TONE CONTROL P.C BOARD

Ref. No.	Part No.	Description
IC1	EI-344764	IC M5218P-21
SW1	ES-379984J	SW ROTARY SRRZS4 2-04-04 N [SPEAKER SELECTOR]
VR1	EV-379992J	VR ROTARY RK1631210 C104-X2 [BASS CONTROL]
VR2	EV-379993J	VR ROTARY RK1631210 C104-X2 [TREBLE CONTROL]

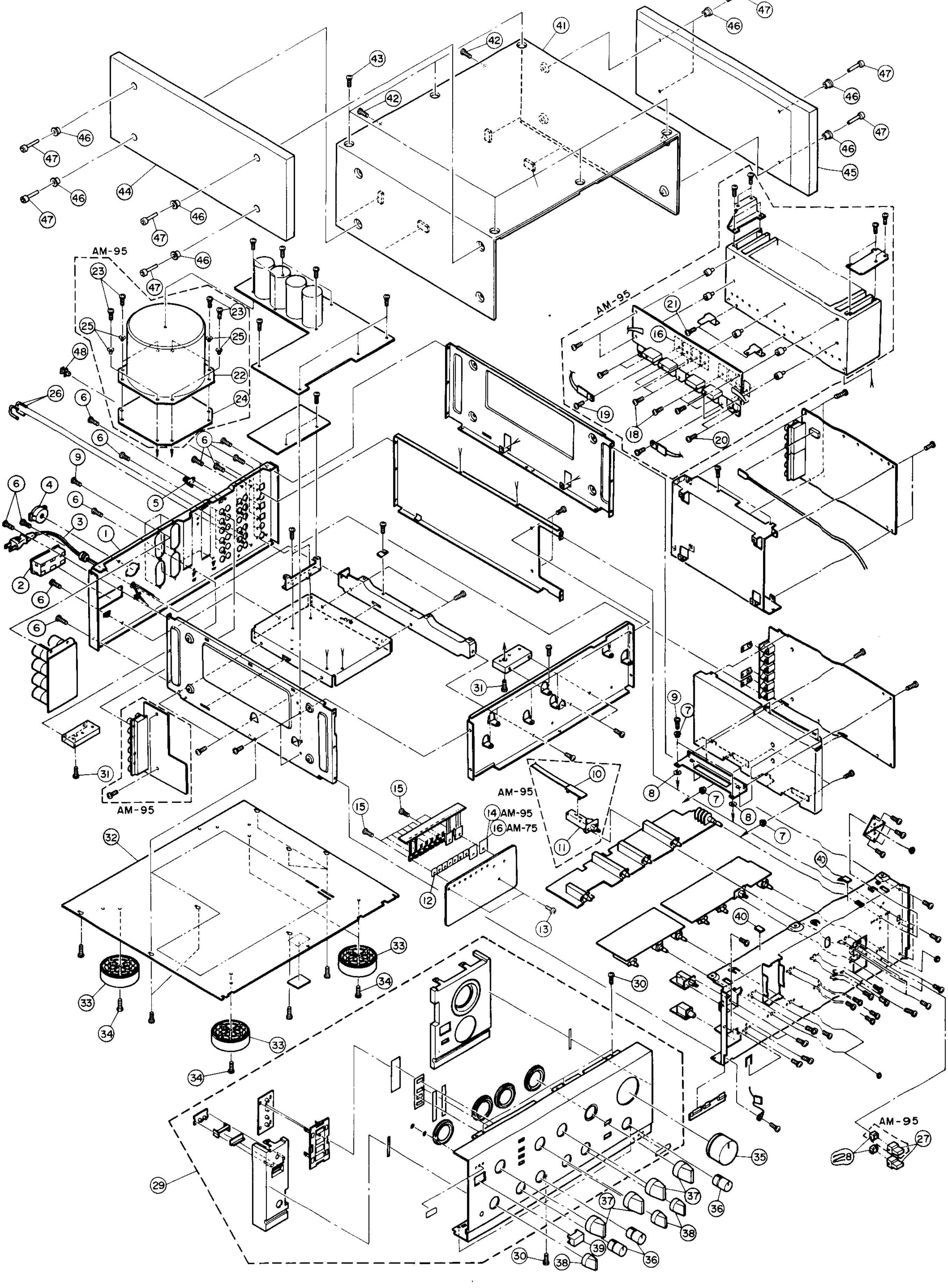
20. REC SELECTOR P.C BOARD

Ref. No.	Part No.	Description
SW1	ES-379986J	SW ROTARY SRRZS6 2-06-06N [REC SELECTOR]
SW2	ES-379988J	SW ROTARY SRRZS8 2-08-03N [TAPE SELECTOR]
SW3	ES-378941J	SW PUSH SPUL12 2-04-02S [MUTE]
VR1	EV-379994J	VR ROTARY RK1631110 SPL W104 [BALANCE]

21. DAC P.C BOARD

Ref. No.	Part No.	Description
D1	ED-624903	D SILICON H 1S2473
D2	ED-624903	D SILICON H 1S2473
D3	ED-624903	D SILICON H 1S2473
D4	ED-624903	D SILICON H 1S2473
D5	ED-624903	D SILICON H 1S2473
D6	ED-624903	D SILICON H 1S2473
D7	ED-624903	D SILICON H 1S2473
D8	ED-624903	D SILICON H 1S2473
IC1	EI-390063J	IC PD0037
IC2	EI-360040J1	IC TC74HCU04AP
IC3	EI-360040J1	IC TC74HCU04AP
IC4	EI-360040J1	IC TC74HCU04AP
IC5	EI-360037J1	IC TC74HC00AP
IC6	EI-360037J1	IC TC74HC00AP
IC7	EI-360027	IC TC74HC86P
IC8	EI-390995J	IC MN6471M
IC9	EI-390996J	IC FAR-18M432-D300
IC10	EI-362588	IC M5238P
IC11	EI-360225	IC NJM5532D
J1	EJ-385272J	SOCKET OPTICAL T0RX174 [DIGITAL 1 IN]
J2	EJ-385272J	SOCKET OPTICAL T0RX174 [DIGITAL 3 IN]
J3	EJ-383549J	SOCKET OPTICAL T0TX174 [DIGITAL 3 OUT]
J4	EJ-377170	PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 2 IN]
J5	EJ-377170	PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 4 IN]
J6	EJ-377170	PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 4 OUT]
L1	EO-318379	COIL FIX 1 LAL04 101K
L2	EO-345927	COIL FIX 1 LAL03KH 101K
L3	EO-345927	COIL FIX 1 LAL03KH 101K
L4	EO-345909	COIL FIX 1 LAL03KH 4R7K
L5	EO-349462	COIL FIX 2 U147
L6	EO-349462	COIL FIX 2 U147
L7	EO-345904	COIL FIX 1 LAL03KH 1R5M
L8	EO-345927	COIL FIX 1 LAL03KH 101K
L10	EO-345927	COIL FIX 1 LAL03KH 101K
L11	EO-345922	COIL FIX 1 LAL03KH 470K
L12	EO-345922	COIL FIX 1 LAL03KH 470K
L13	EO-345922	COIL FIX 1 LAL03KH 470K
L14	EO-345909	COIL FIX 1 LAL03KH 4R7K
L15	EO-345909	COIL FIX 1 LAL03KH 4R7K
TR1	ET-354371	TR DTC124ES
TR2	ET-352726	TR 2SA1392 T,U
TR3	ET-354371	TR DTC124ES
TR4	ET-354371	TR DTC124ES
TR5	ET-354370	TR DTA124ES
TR6	ET-354370	TR DTA124ES
TR7	ET-338410	TR 2SC2878 A,B
TR8	ET-338410	TR 2SC2878 A,B
TR9	ET-354371	TR DTC124ES
TR10	ET-356336	TR DTA114ES
TR11	ET-354371	TR DTC124ES
TR12	ET-356336	TR DTA114ES
TR13	ET-378524J	TR 2SC3383 S,T,U
TR14	ET-378524J	TR 2SC3383 S,T,U
TR15	ET-378524J	TR 2SC3383 S,T,U
TR16	ET-354370	TR DTA124ES
TR17	ET-354370	TR DTA124ES
TR18	ET-354370	TR DTA124ES
T1	BT-368261	TRANS PULSE TC-1027-04

FINAL ASSEMBLY BLOCK



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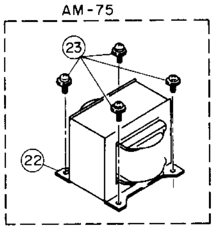

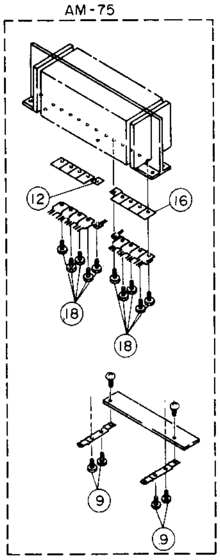

22. FAINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
1A	SP-391759J	PANEL REAR AM-75(U) [U] [AM-75]
1B	SP-391760J	PANEL REAR AM-75(E,V) [E,V] [AM-75]
1C	SP-391761J	PANEL REAR AM-75(B) [B] [AM-75]
1D	SP-391755J	PANEL REAR AM-95(U) [U] [AM-95]
1E	SP-391756J	PANEL REAR AM-95(E,V) [E,V] [AM-95]
1F	SP-391757J	PANEL REAR AM-95(B) [B] [AM-95]
2	✱EJ-337405	SOCKET OUT S2T733T164 JUC 3X2P [U]
3A	✱EW-363658	AC CORD 200 0129AVFF B100 A U/ [U]
3B	✱EW-363671	AC CORD 200 0364 LCFL B100 A E [E,V]
3C	✱EW-363683	AC CORD 200 LCFL B100 A B [B]
4	✱ES-349070	SW SELECTOR YKS11-0002 02-4 [U] [VOLTAGE SELECTOR]
5	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
6	ZS-308846	T2BR30X08STL BZN PROJECTION
7	EZ-250356	INSULATOR BUSH AC311
8	ZW-383864J	WASHER INSULATE
9	ZS-447840	T2BR30X08STL CMT
10	ES-385553J	SW REMOTE O SPUR12 [AM-95]
11	ES-385576J	SW REMOTE B SWWR10 [AM-95]
12	EZ-200473	SILICON RUBBER SHEET TC-30
13	ZS-379350	PAN30X06STL CMT
14	EZ-387958J	TR SUPPORT BFG-20AD TO-3P [AM-95]
15	ZS-379405	BID30X06STL CMT
16	EZ-345459	TR SUPPORT BFG-20T0-3P
18	ZS-380046	PAN30X10STL CMT
19	ZS-413785	BID30X12STL CMT [AM-95]
20	ZS-321298	BID30X08STL CMT [AM-95]
21	ZS-381181J	+6B40X060STL CMT [AM-95]
22A	✱BT-379958J	TRANS POW A2057(U) [U] [AM-75]
22B	✱BT-379962J1	TRANS POW A2057(EV) [E,V] [AM-75]
22C	✱BT-379963J1	TRANS POW A2057(B) [B] [AM-75]
22D	✱BT-385569J	TRANS POW A2050(U) [U] [AM-95]
22E	✱BT-385572J	TRANS POW A2050(EV) [E,V] [AM-95]
22F	✱BT-385573J	TRANS POW A2050(B) [B] [AM-95]
23	ZS-365373	ST BID40X10STL CMT CUP
24	SZ-385531J	SHEET PREVENT SHAKING [AM-95]
25	ZW-385530J	BUSH TRANS [AM-95]
26	EJ-348218	PLUG SHORT PIN P2138
27	SK-379900J	KNOB MUTE
28	ZW-368205	FLEXIBLE RING 2414-0-0-086-01
29A	BD-A2057A060C	PANEL FRONT BLK AM-75-B [AM-75]
29B	BD-A2050C060B	PANEL FRONT BLK AM-95-B [AM-95]
30	ZS-308846	T2BR30X08STL BZN PROJECTION
31	ZS-565942	T2PAN40X08STL CMT [AM-95]
32	SC-379906J	COVER BOTTOM
33A	SA-384105J	FOOT ROUND SHAPED(N) [AM-75]
33B	SA-384387J	FOOT ROUND SHAPED(N)(2) [AM-95]
34	ZS-304021	ST BID40X12STL CMT
35	SK-379887J1	KNOB VR B PART
36	SK-379898J1	KNOB BALANCE PART
37	SK-379893J1	KNOB SELECTOR PART
38	SK-379896J1	KNOB SP PART
39	SK-373236B	KNOB POWER-B
40	ZW-381273J	SPACER
41A	SP-379905J	CAVER UPPER(2) B [EXCEPT AM-95E/V/B]
41B	SP-381237J	COVER UPPER B [E,V,B] [AM-95]
42	ZS-308846	T2BR30X08STL BZN PROJECTION
43	ZS-381482J	SCREW TOP COVER(3) B OM
44	SP-381364J	SIDE BOARD(L)
45	SP-381365J	SIDE BOARD(R)
46	ZW-376292	WASHER SIDE BOARD
47	ZS-376293	SCREW SIDE BOARD
48	SZ-725384J	CAP OPTICAL PROTECTER

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

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ABBREVIATIONS (AMPLIFIER)

ABBREVIATIONS	EXPLANATION
A	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
COM	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
MM	Moving Magnet
PCB	Printed Circuit Board
R	Right
REG.	REGulator
REC	RECord
TR	TRansistor
SW	SWitch
V.AMP	Voltage AMPlifier
V.DISC	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder

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MODEL AM-75,95

SCHEMATIC DIAGRAMS
AND PC BOARDS

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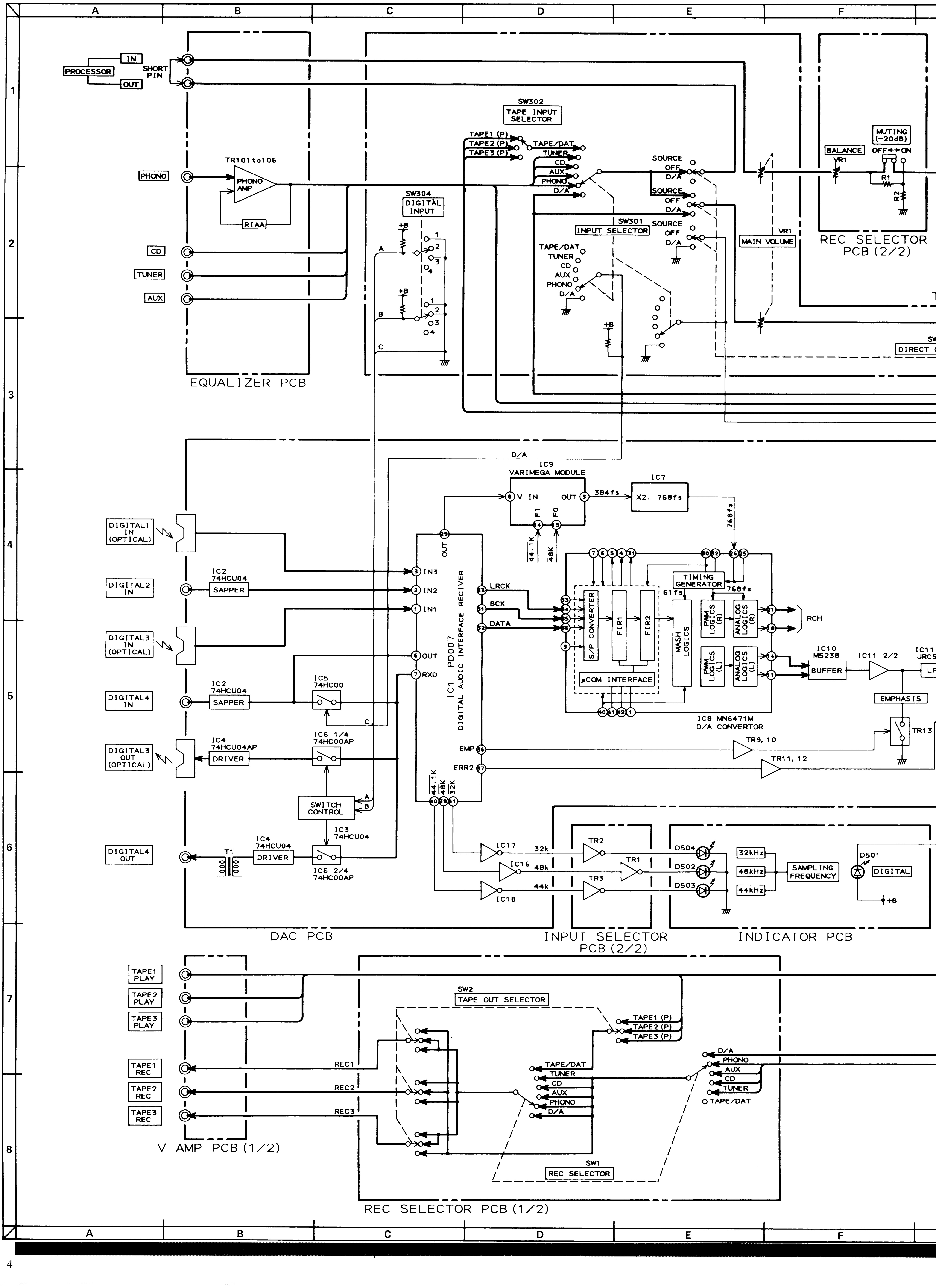

A
B
C
D
E
F
1
2
3
4
5
6
7
8
PROCESSOR
IN
OUT
SHORT PIN
SW302
TAPE INPUT SELECTOR
TAPE1 (P)
TAPE2 (P)
TAPE3 (P)
TAPE/DAT
TUNER
CD
AUX
PHONO
D/A
SOURCE
OFF
MUTING (−20dB)
OFF ↔ ON
BALANCE
VR1
R1
R2
TR101 to106
PHONO
PHONO AMP
RIAA
SW304
DIGITAL INPUT
+B
A
B
C
1
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SW301
INPUT SELECTOR
MAIN VOLUME
REC SELECTOR PCB (2/2)
DIRECT
CD
TUNER
AUX
EQUALIZER PCB
D/A
IC9
VARIMEGA MODULE
V IN
OUT
F1
F0
44.1K
48K
384fs
IC7
X2. 768fs
768fs
DIGITAL1 IN (OPTICAL)
DIGITAL2 IN
DIGITAL3 IN (OPTICAL)
DIGITAL4 IN
DIGITAL3 OUT (OPTICAL)
DIGITAL4 OUT
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SAPPER
IC5 74HC00
IC4 74HCU04AP
DRIVER
IC6 1/4 74HC00AP
SWITCH CONTROL
IC3 74HCU04
IC4 74HCU04
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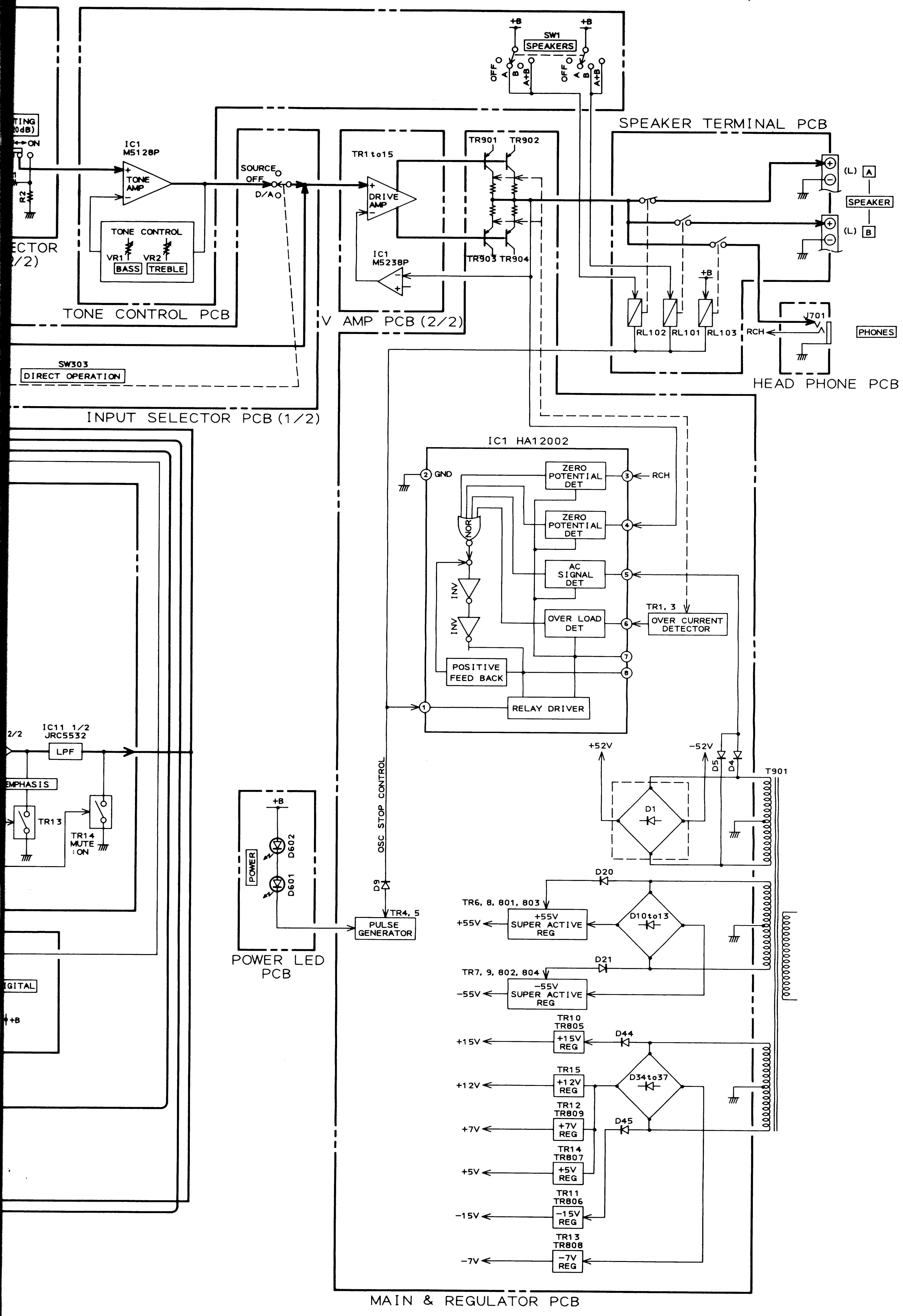
IC6 2/4 74HC00AP
IN3
IN2
IN1
OUT
RXD
IC1 PD007 DIGITAL AUDIO INTERFACE RECIVER
LRCK
BCK
DATA
EMP
ERR2
44.1k
48k
32k
TIMING GENERATOR
61fs
768fs
S/P CONVERTER
FIR1
FIR2
MASH LOGICS
PWM LOGICS (R)
ANALOG LOGICS (R)
PWM LOGICS (L)
ANALOG LOGICS (L)
μCOM INTERFACE
IC8 MN6471M D/A CONVERTOR
RCH
IC10 M5238
BUFFER
IC11 2/2
IC11 JRC5
LP
EMPHASIS
TR13
TR9, 10
TR11, 12
IC17
IC16
IC18
32k
48k
44k
TR2
TR1
TR3
D504
D502
D503
32kHz
48kHz
44kHz
SAMPLING FREQUENCY
D501
DIGITAL
+B
DAC PCB
INPUT SELECTOR PCB (2/2)
INDICATOR PCB
TAPE1 PLAY
TAPE2 PLAY
TAPE3 PLAY
TAPE1 REC
TAPE2 REC
TAPE3 REC
REC1
REC2
REC3
SW2
TAPE OUT SELECTOR
SW1
REC SELECTOR
V AMP PCB (1/2)
REC SELECTOR PCB (1/2)


SW1
SPEAKERS
+B
OFF
A
B
A+B
IC1
M5128P
TONE AMP
TONE CONTROL
VR1
VR2
BASS
TREBLE
R2
TONE CONTROL PCB
SOURCE
OFF
D/A
TR1 to 15
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SPEAKER
RL102
RL101
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RCH
J701
PHONES
HEAD PHONE PCB
SW303
DIRECT OPERATION
INPUT SELECTOR PCB (1/2)
ECTOR
(2/2)
TING
20dB)
ON
IC1 HA12002
GND
ZERO POTENTIAL DET
ZERO POTENTIAL DET
AC SIGNAL DET
OVER LOAD DET
NOR
INV
INV
POSITIVE FEED BACK
RELAY DRIVER
TR1, 3
OVER CURRENT DETECTOR
+52V
−52V
D5
D4
T901
D1
OSC STOP CONTROL
D9
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PULSE GENERATOR
POWER
D602
D601
POWER LED PCB
IC11 1/2
JRC5532
LPF
2/2
EMPHASIS
TR13
TR14
MUTE
: ON
IGITAL
D20
TR6, 8, 801, 803
+55V
+55V SUPER ACTIVE REG
D10 to 13
D21
TR7, 9, 802, 804
−55V
−55V SUPER ACTIVE REG
TR10
TR805
+15V
+15V REG
D44
D34 to 37
TR15
+12V
+12V REG
TR12
TR809
+7V
+7V REG
D45
TR14
TR807
+5V
+5V REG
TR11
TR806
−15V
−15V REG
TR13
TR808
−7V
−7V REG
MAIN & REGULATOR PCB
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J
K
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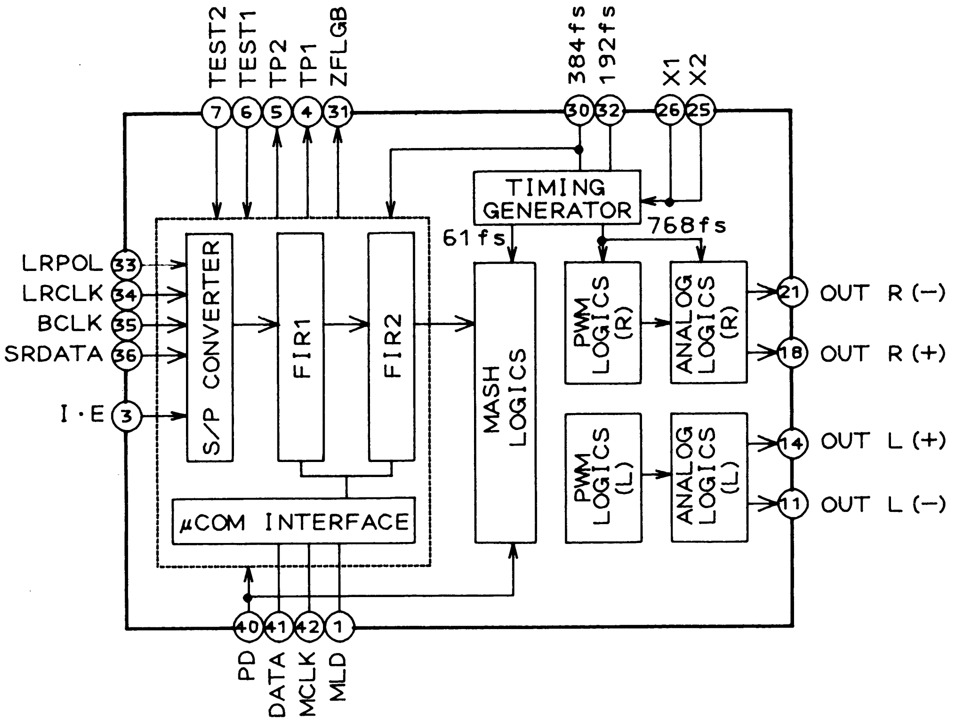
AM−75
BLOCK DIAGRAM
NO. 2−1 A206551M

MN6471M (D/A Convertor)


TEST2
TEST1
TP2
TP1
ZFLGB
7
6
5
4
31
384fs
192fs
30
32
X1
X2
26
25
TIMING GENERATOR
61fs
768fs
LRPOL
LRCLK
BCLK
SRDATA
I·E
33
34
35
36
3
S/P CONVERTER
FIR1
FIR2
MASH LOGICS
PWM LOGICS (R)
ANALOG LOGICS (R)
PWM LOGICS (L)
ANALOG LOGICS (L)
μCOM INTERFACE
21
OUT R (−)
18
OUT R (+)
14
OUT L (+)
11
OUT L (−)
40
41
42
1
PD
MDATA
MCLK
MLD

PIN NO.	SYMBOL	DESCRIPTION
1	MLD	μ-COM Command Load input.
2	RSTB	Reset (L : Active)
3	IE	L : Signal process LSI format. H : I^2S format
4	TP 1	Digital filter test output 1.
5	TP 2	Digital filter test output 2.
6	TEST 1	Digital filter test signal input 1 (L : Normal)
7	TEST 2	Digital filter test signal input 2 (L : Normal)
8	NC	
9	NC	
10	A. VDD 4	Power supply for analog 4 (+5 V)
11	OUT L (−)	L ch PWM output (−)
12	A. VSS 4	Ground for analog 4
13	A. VSS 3	Ground for analog 3
14	OUT L (+)	L ch PWM output (+)
15	A. VDD 3	Power supply for analog 3 (+5 V)
16	NC	
17	A.VDD 2	Power supply for analog 2 (+5 V)
18	OUT R (+)	R ch PWM output (+)
19	A. VSS 2	Ground for analog 2
20	A. VSS 1	Ground for analog 1
21	OUT R (−)	R ch PWM out put (−)
22	A. VDD 1	Power supply for analog 1 (+5 V)
23	D. VDD 1	Power supply for digital 1 (+5 V) (For O.S.C)
24	D. VSS 1	Ground for digital 1 (For O.S.C)
25	× 2	X'tal OSC
26	× 1	X'tal OSC (External clock input)
27	NC	
28	D. VDD2	Power supply for digital 2 (+ 5V)
29	D. VSS2	Ground for digital 2
30	RSUB	Connect to D-VDD
31	ZFLGB	Zero - input detector output
32	192FS	192FS (=8.4672 MHz) output
33	LRPOL	L, R clock switching (H : L ch, L : R ch)
34	LRCLK	L, R clock input
35	BCLK	Sirial input bit clock
36	SRDATA	Sirial input digital data input
37	D. VSS 3	Ground for digital 3
38	D. VDD	Powersupply for digital (+5V)
39	384FS	384FS (=16.9344 MHz) output
40	PD	Power down (H : Active)
41	M DATA	μ - COM command data input
42	MCLK	μ - COM commmand clock input

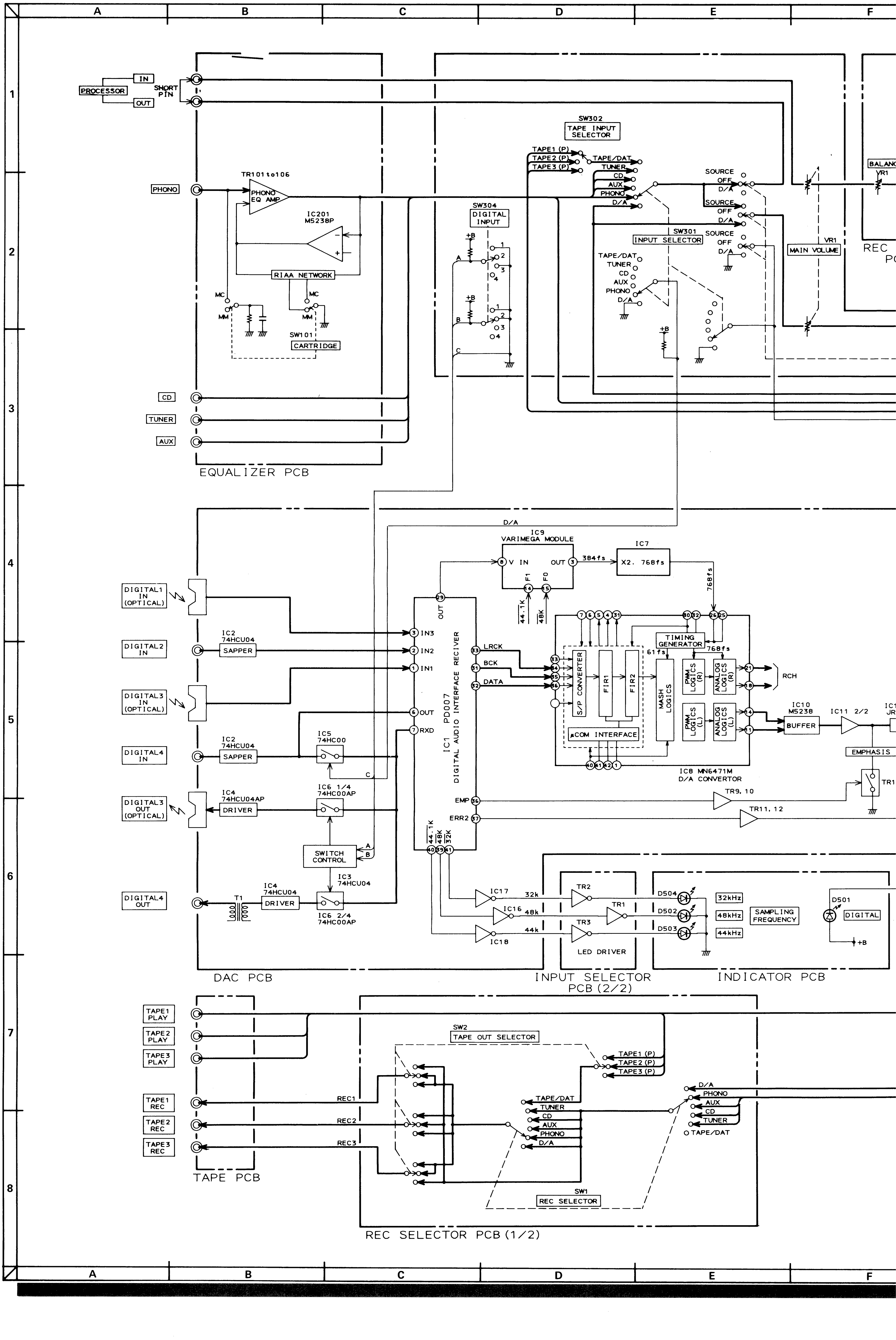
PD0037 (Digital Audio Interface Reciv

PIN NO	SYMBOL	I/O	
1	IN1	I	Data Input
2	IN2	I	Data Input
3	IN3	I	Data Input
4	S1	I	Input Select
5	S2	I	Input Select
6	OUT	O	MPX Data out
7	RXD	I	Data Input
8	$\overline{\text{TEST}}$	I	TEST MODE Inp
9	CNTR	I	Counter Clock Inp
10	2 INH	I	VCO "2" ON/OF
11	VSS	—	−B (OV)
12	$\overline{\text{RESET}}$	I	Power "ON" Rese
13	PCVS	I	VCO "1" "2" Inpu
14	PC1 OUT	O	Phsase comparato
15	R1	—	External resistor (
16	VCO1 IN	I	Control Voltage I
17	VDD1	—	+B(5V)
18	VCO1 out	O	NC
19	VSS1	—	GND for vco Circ
20	C1A	—	External Capacite

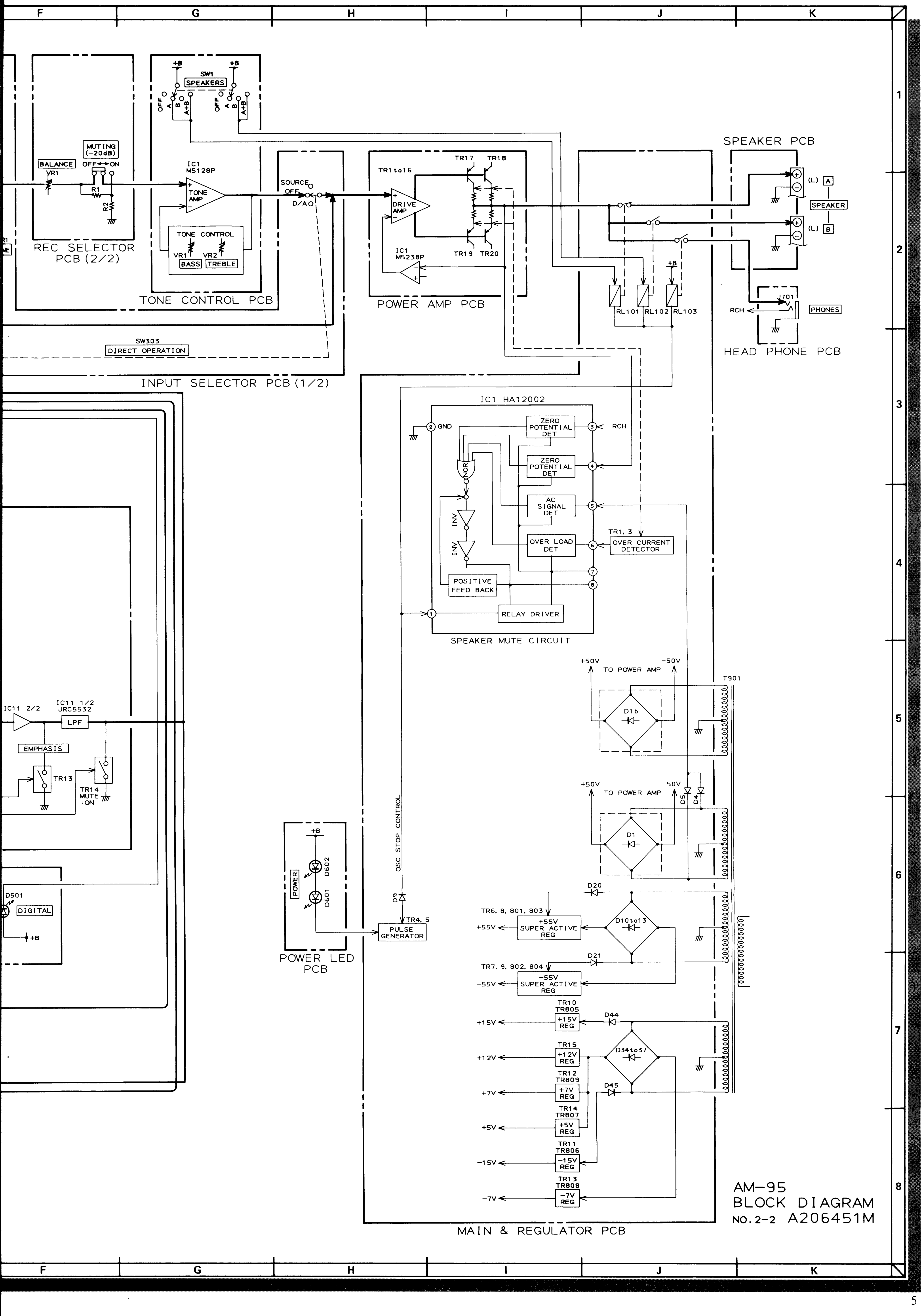
nterface Reciver)

FUNCTION
Data Input
Data Input
Data Input
Input Select
Input Select
MPX Data out
Data Input
TEST MODE Input
Counter Clock Input
VCO "2" ON/OFF Control. H=OFF
−B (OV)
Power "ON" Reset Input
VCO "1" "2" Input
Phsase comparator "1" output
External resistor Connection Terminal for VCO (1)
Control Voltage Input
+B(5V)
NC
GND for vco Circuit
External Capaciter Connection Terminal for VCO (1)

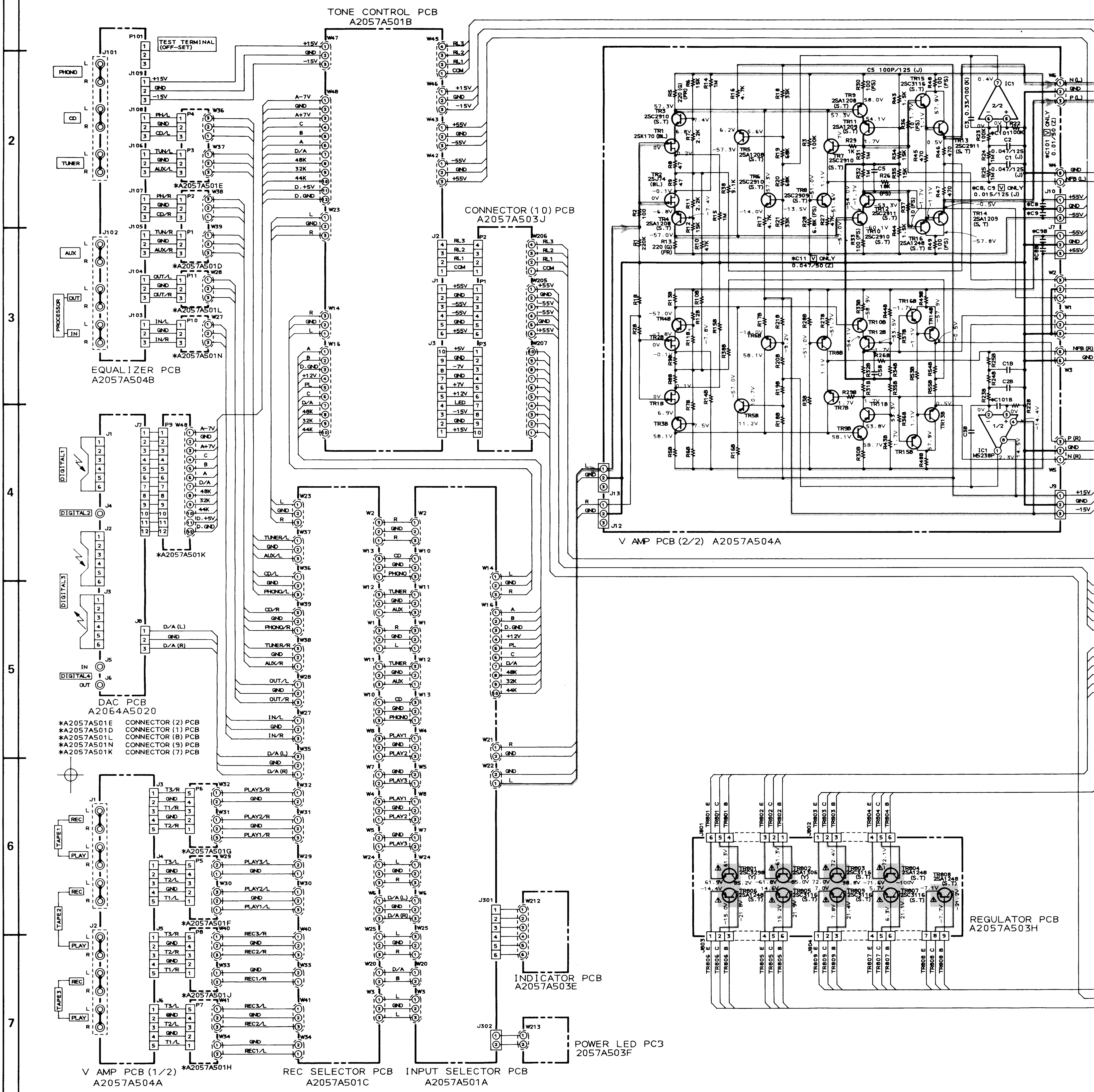
21	C1B	—	External Capaciter Connection Terminal for VCO (1)
22	C2B	—	External Capaciter Connection Terminal for VCO (2)
23	C2A	—	External Capaciter Connection Terminal for VCO (2)
24	VSS2	—	−B (OV)
25	VCO2 OUT	O	VCO Output (384fs)
26	VDD	—	+B (+5V)
27	VCO 2 IN	I	Control voltage Input
28	R2	—	External Resistor Connection Terminal for VCO (2)
29	PC 2 OUT	O	Phsase comperator "2" Output
30	SIG 2	I	Phsase comperator "2" Input
31	BCK	O	BCK Output
32	DATA	O	Audio Data Output
33	LRCK	O	Data Output (H=Lch, L=Rch)
34	WCK	O	Data word clock Output
35	COPY	O	Copy data Output
36	EMPH	O	H: EMPHASIS "ON"
37	ERR 2	O	H: UNLOCK "ON"
38	ERR 1	O	H=Err
39	48K	O	Sampling frequency data Output. L=active
40	44.1K	O	
41	32K	O	
42	VDD	—	+B (+5V)



A
B
C
D
E
F
1
2
3
4
5
6
7
8
PROCESSOR
IN
OUT
SHORT PIN
SW302
TAPE INPUT SELECTOR
TAPE1 (P)
TAPE2 (P)
TAPE3 (P)
TAPE/DAT
TUNER
CD
AUX
PHONO
D/A
SOURCE
OFF
BALANC
VR1
PHONO
TR101 to 106
PHONO EQ AMP
IC201
M5238P
RIAA NETWORK
MC
MM
SW101
CARTRIDGE
SW304
DIGITAL INPUT
+B
A
B
C
1
2
3
4
SW301
INPUT SELECTOR
MAIN VOLUME
REC
PC
CD
TUNER
AUX
EQUALIZER PCB
D/A
IC9
VARIMEGA MODULE
V IN
OUT
384fs
IC7
X2. 768fs
768fs
F1
F0
44.1K
48K
DIGITAL1 IN (OPTICAL)
DIGITAL2 IN
DIGITAL3 IN (OPTICAL)
DIGITAL4 IN
DIGITAL3 OUT (OPTICAL)
DIGITAL4 OUT
IC2
74HCU04
SAPPER
IC5
74HC00
IC4
74HCU04AP
DRIVER
IC6 1/4
74HC00AP
SWITCH CONTROL
IC3
74HCU04
IC4
74HCU04
DRIVER
IC6 2/4
74HC00AP
T1
IN3
IN2
IN1
OUT
RXD
IC1 PD007
DIGITAL AUDIO INTERFACE RECIVER
LRCK
BCK
DATA
EMP
ERR2
44.1K
48K
32K
TIMING GENERATOR
61fs
768fs
S/P CONVERTER
FIR1
FIR2
MASH LOGICS
PWM LOGICS (R)
ANALOG LOGICS (R)
PWM LOGICS (L)
ANALOG LOGICS (L)
μCOM INTERFACE
RCH
IC8 MN6471M
D/A CONVERTOR
IC10
M5238
BUFFER
IC11 2/2
IC1
JR
EMPHASIS
TR1
TR9, 10
TR11, 12
IC17
IC16
IC18
32k
48k
44k
TR2
TR1
TR3
LED DRIVER
D504
D502
D503
32kHz
48kHz
44kHz
SAMPLING FREQUENCY
D501
DIGITAL
+B
DAC PCB
INPUT SELECTOR PCB (2/2)
INDICATOR PCB
TAPE1 PLAY
TAPE2 PLAY
TAPE3 PLAY
TAPE1 REC
TAPE2 REC
TAPE3 REC
TAPE PCB
SW2
TAPE OUT SELECTOR
REC1
REC2
REC3
TAPE1 (P)
TAPE2 (P)
TAPE3 (P)
TAPE/DAT
TUNER
CD
AUX
PHONO
D/A
SW1
REC SELECTOR
REC SELECTOR PCB (1/2)


F
G
H
I
J
K
1
2
3
4
5
6
7
8
+B
SW1
SPEAKERS
OFF
A
B
A+B
MUTING
(-20dB)
OFF↔ON
BALANCE
VR1
R1
R2
REC SELECTOR
PCB (2/2)
IC1
M5128P
TONE AMP
TONE CONTROL
VR1
VR2
BASS
TREBLE
TONE CONTROL PCB
SOURCE
OFF
D/A
SW303
DIRECT OPERATION
INPUT SELECTOR PCB (1/2)
TR1to16
TR17
TR18
DRIVE AMP
TR19
TR20
IC1
M5238P
POWER AMP PCB
SPEAKER PCB
(L)
A
SPEAKER
B
RL101
RL102
RL103
RCH
J701
PHONES
HEAD PHONE PCB
IC1 HA12002
GND
ZERO POTENTIAL DET
RCH
ZERO POTENTIAL DET
NOR
AC SIGNAL DET
INV
INV
OVER LOAD DET
TR1, 3
OVER CURRENT DETECTOR
POSITIVE FEED BACK
RELAY DRIVER
SPEAKER MUTE CIRCUIT
+50V
TO POWER AMP
-50V
T901
D1b
D5
D4
D1
IC11 2/2
IC11 1/2
JRC5532
LPF
EMPHASIS
TR13
TR14
MUTE
:ON
D501
DIGITAL
+B
POWER
D602
D601
POWER LED
PCB
OSC STOP CONTROL
D9
TR4, 5
PULSE GENERATOR
D20
TR6, 8, 801, 803
+55V
+55V SUPER ACTIVE REG
D10to13
D21
TR7, 9, 802, 804
-55V
-55V SUPER ACTIVE REG
TR10
TR805
+15V
+15V REG
D44
D34to37
TR15
+12V
+12V REG
TR12
TR809
+7V
+7V REG
D45
TR14
TR807
+5V
+5V REG
TR11
TR806
-15V
-15V REG
TR13
TR808
-7V
-7V REG
MAIN & REGULATOR PCB

AM-95
BLOCK DIAGRAM
NO.2-2 A206451M


TONE CONTROL PCB
A2057A501B
CONNECTOR (10) PCB
A2057A503J
TEST TERMINAL (OFF-SET)
PHONO
CD
TUNER
AUX
PROCESSOR
OUT
IN
EQUALIZER PCB
A2057A504B
DIGITAL1
DIGITAL2
DIGITAL3
DIGITAL4
DAC PCB
A2064A5020
*A2057A501E CONNECTOR (2) PCB
*A2057A501D CONNECTOR (1) PCB
*A2057A501L CONNECTOR (8) PCB
*A2057A501N CONNECTOR (9) PCB
*A2057A501K CONNECTOR (7) PCB
TAPE1
TAPE2
TAPE3
REC
PLAY
V AMP PCB (1/2)
A2057A504A
REC SELECTOR PCB
A2057A501C
INPUT SELECTOR PCB
A2057A501A
INDICATOR PCB
A2057A503E
POWER LED PC3
2057A503F
V AMP PCB (2/2) A2057A504A
C5 100P/125 (J)
*C11 V ONLY 0.047/50 (Z)
*C8, C9 V ONLY 0.015/125 (J)
IC1 M5238P
REGULATOR PCB
A2057A503H
A
B
C
D
E
F
1
2
3
4
5
6
7
8

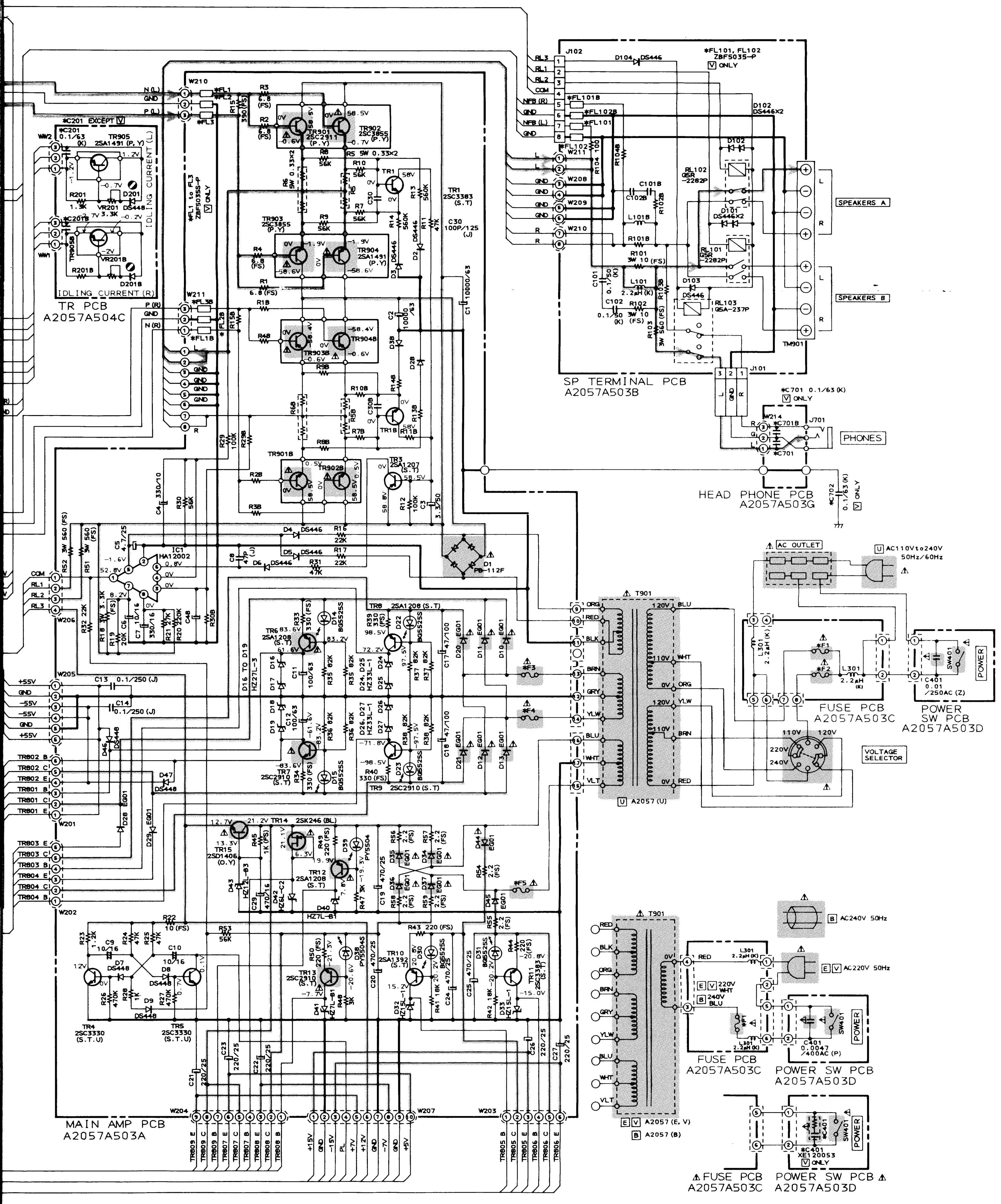
*A2057A501G CONNECTOR (4) PCB
*A2057A501F CONNECTOR (3) PCB
*A2057A501J CONNECTOR (6) PCB
*A2057A501H CONNECTOR (5) PCB

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

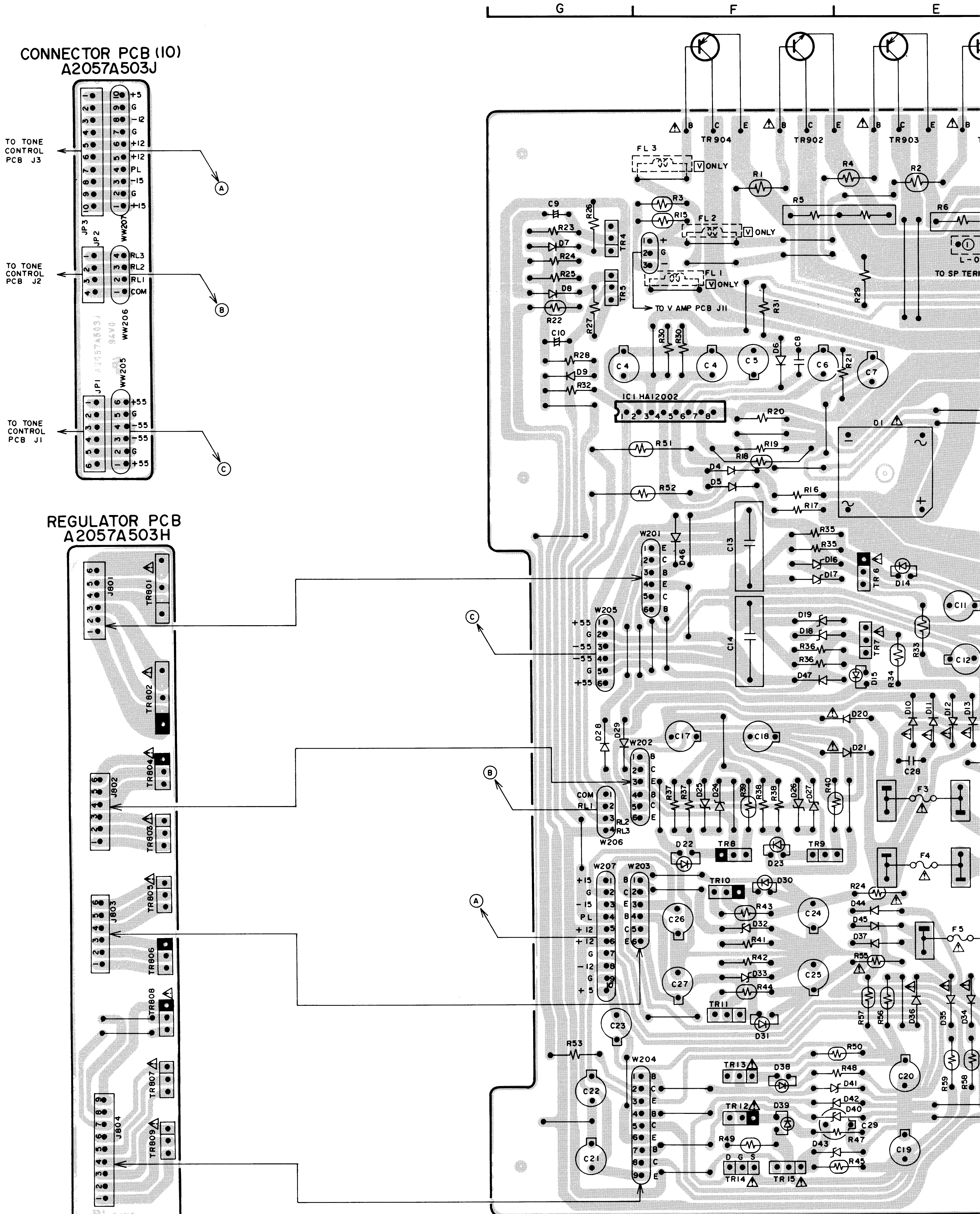
▨ B(POWER SUPPLY) LINE
▨ MAIN SIGNAL LINE

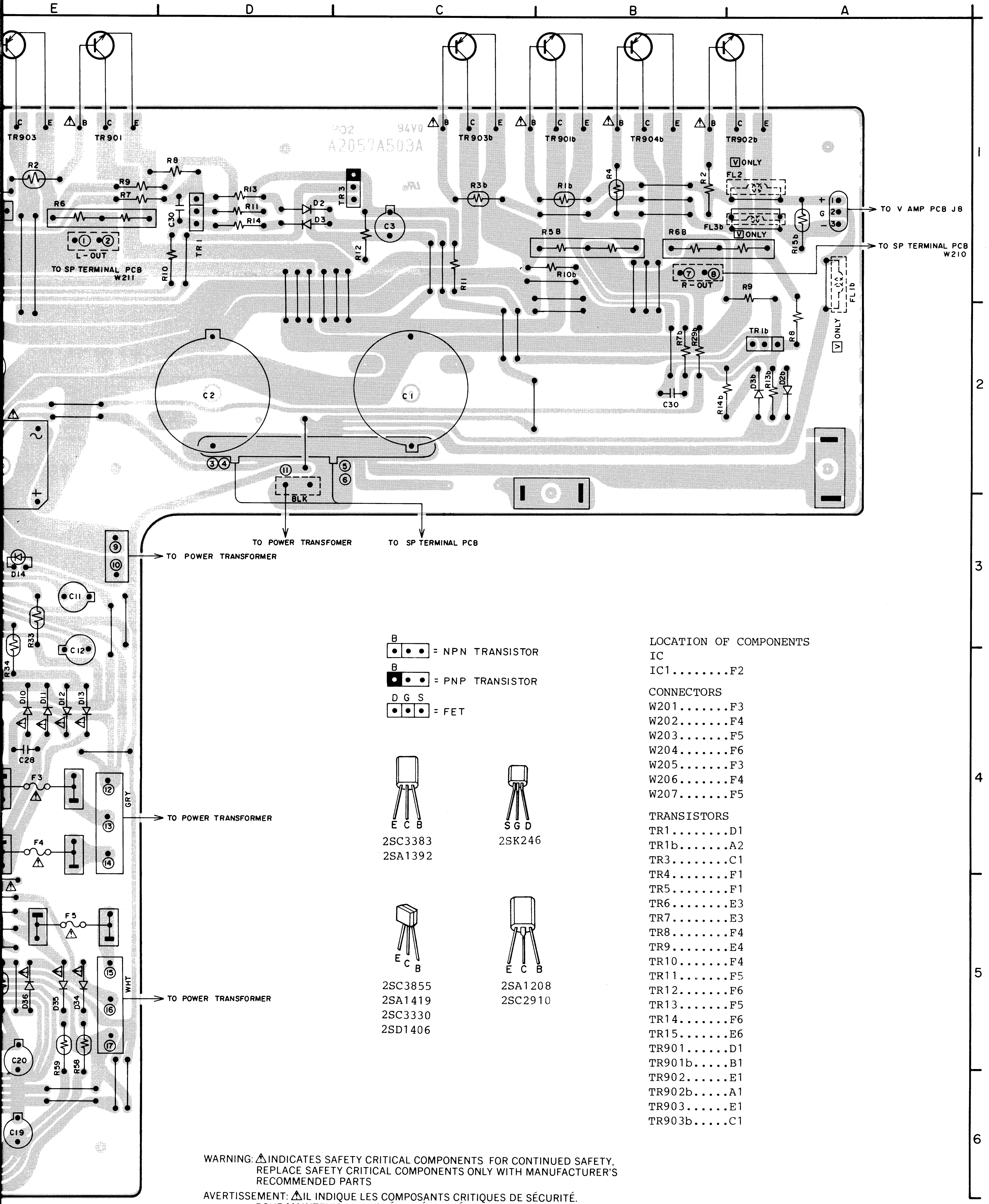
NOTE
UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 25WV (M)


TR PCB
A2057A504C
IDLING CURRENT (L)
IDLING CURRENT (R)
SP TERMINAL PCB
A2057A503B
SPEAKERS A
SPEAKERS B
PHONES
HEAD PHONE PCB
A2057A503G
AC OUTLET
AC110V to 240V 50Hz/60Hz
T901
FUSE PCB
A2057A503C
POWER SW PCB
A2057A503D
VOLTAGE SELECTOR
A2057 (U)
AC240V 50Hz
AC220V 50Hz
A2057 (E, V)
A2057 (B)
MAIN AMP PCB
A2057A503A
*C401
XE120053
V ONLY

*	F1	F2	F3, F4	F5
E, V, B	T4A 250V	—	T1A 250V	T1A 250V
U	4A 250V	4A 250V	500mA 250V	800mA 250V

AM-75
CONNECTION DIAGRAM
NO. 7-1 A206501M


G
F
E
CONNECTOR PCB (10)
A2057A503J
TO TONE CONTROL PCB J3
TO TONE CONTROL PCB J2
TO TONE CONTROL PCB J1
+5
G
-12
G
+12
+12
PL
-15
G
+15
RL3
RL2
RL1
COM
+55
G
-55
-55
G
+55
JP1
JP2
JP3
WW205
WW206
WW207
A
B
C
REGULATOR PCB
A2057A503H
J801
J802
J803
J804
TR801
TR802
TR803
TR804
TR805
TR806
TR807
TR808
TR809
TR904
TR902
TR903
FL 3
FL 2
FL 1
V ONLY
TO V AMP PCB J11
TO SP TERM
IC1 HA12002
D1
W201
W202
W203
W204
W205
W206
W207
F3
F4
F5
MAIN PCB A2057A503A (J1)


E
D
C
B
A
1
2
3
4
5
6
TR903
TR901
TR903b
TR901b
TR904b
TR902b
B
C
E
02 94V0
A2057A503A
R2
R8
R9
R7
R6
R13
R11
R14
D2
D3
TR3
C3
R12
R10
C30
TR1
R3b
R1b
R4
R58
R68
R10b
R11
① ②
L-OUT
TO SP TERMINAL PCB W211
V ONLY
FL2
FL3b
R15b
TO V AMP PCB J8
TO SP TERMINAL PCB W210
⑦ ⑧
R-OUT
R9
FL1b
TR1b
R8
R7b
R29b
R14b
D3b
R13b
D2b
C30
C2
C1
③④
⑪
⑤
⑥
BLK
TO POWER TRANSFOMER
TO SP TERMINAL PCB
⑨
⑩
TO POWER TRANSFORMER
D14
C11
R33
R34
C12
D10
D11
D12
D13
C28
F3
F4
⑫
⑬
⑭
GRY
TO POWER TRANSFORMER
F5
⑮
⑯
⑰
WHT
TO POWER TRANSFORMER
D36
D35
D34
C20
R59
R58
C19
B
= NPN TRANSISTOR
B
= PNP TRANSISTOR
D G S
= FET
E C B
2SC3383
2SA1392
S G D
2SK246
E C B
2SC3855
2SA1419
2SC3330
2SD1406
E C B
2SA1208
2SC2910

LOCATION OF COMPONENTS

IC

IC1	F2

CONNECTORS

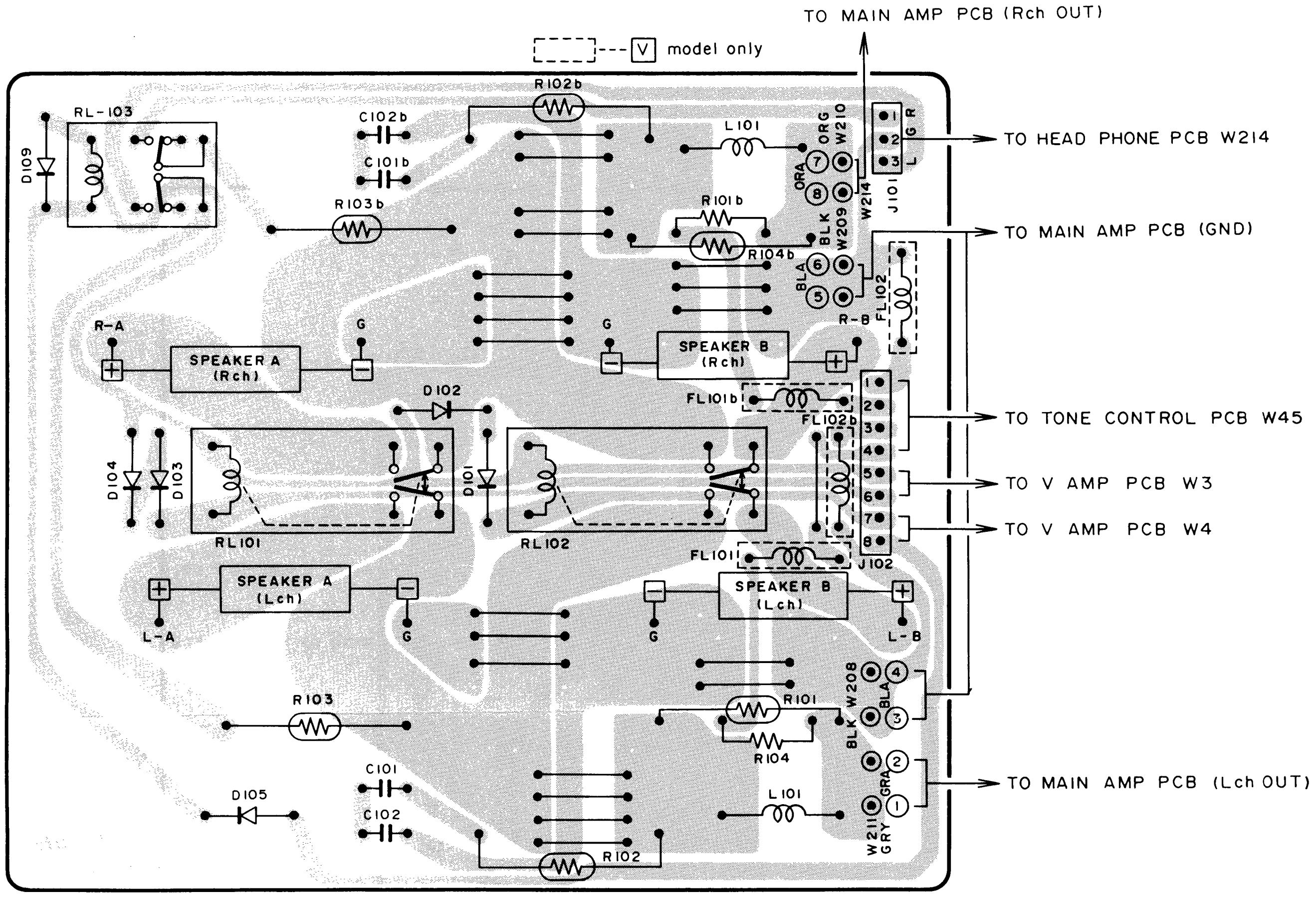
W201	F3
W202	F4
W203	F5
W204	F6
W205	F3
W206	F4
W207	F5

TRANSISTORS

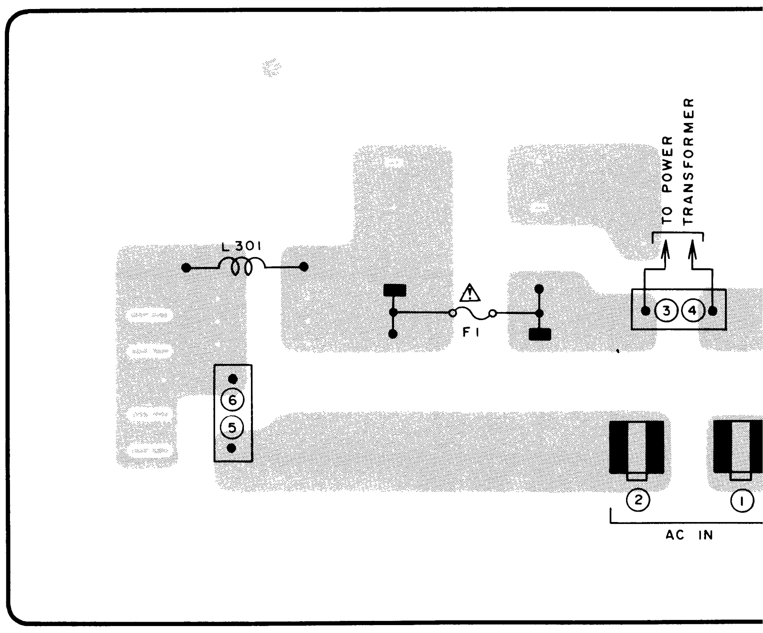
TR1	D1
TR1b	A2
TR3	C1
TR4	F1
TR5	F1
TR6	E3
TR7	E3
TR8	F4
TR9	E4
TR10	F4
TR11	F5
TR12	F6
TR13	F5
TR14	F6
TR15	E6
TR901	D1
TR901b	B1
TR902	E1
TR902b	A1
TR903	E1
TR903b	C1

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

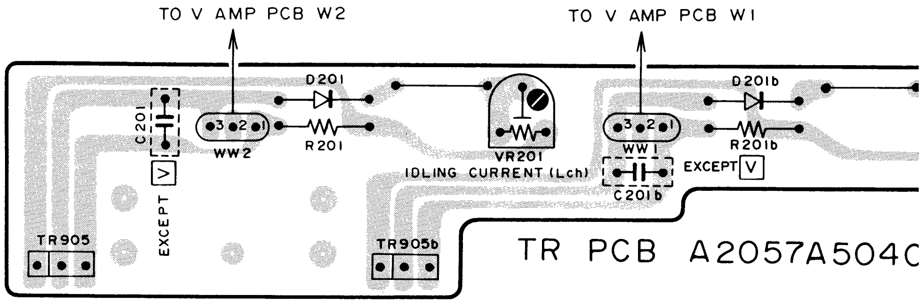
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


V model only
TO MAIN AMP PCB (Rch OUT)
TO HEAD PHONE PCB W214
TO MAIN AMP PCB (GND)
TO TONE CONTROL PCB W45
TO V AMP PCB W3
TO V AMP PCB W4
TO MAIN AMP PCB (Lch OUT)
RL-103
D109
C102b
C101b
R102b
R103b
L101
R101b
R104b
J101
W214
W210
W209
R-A
SPEAKER A (Rch)
SPEAKER B (Rch)
R-B
FL102
FL101b
FL102b
D102
D101
D103
D104
RL101
RL102
FL101
J102
SPEAKER A (Lch)
SPEAKER B (Lch)
L-A
L-B
G
R103
R101
R104
W208
W211
D105
C101
C102
R102

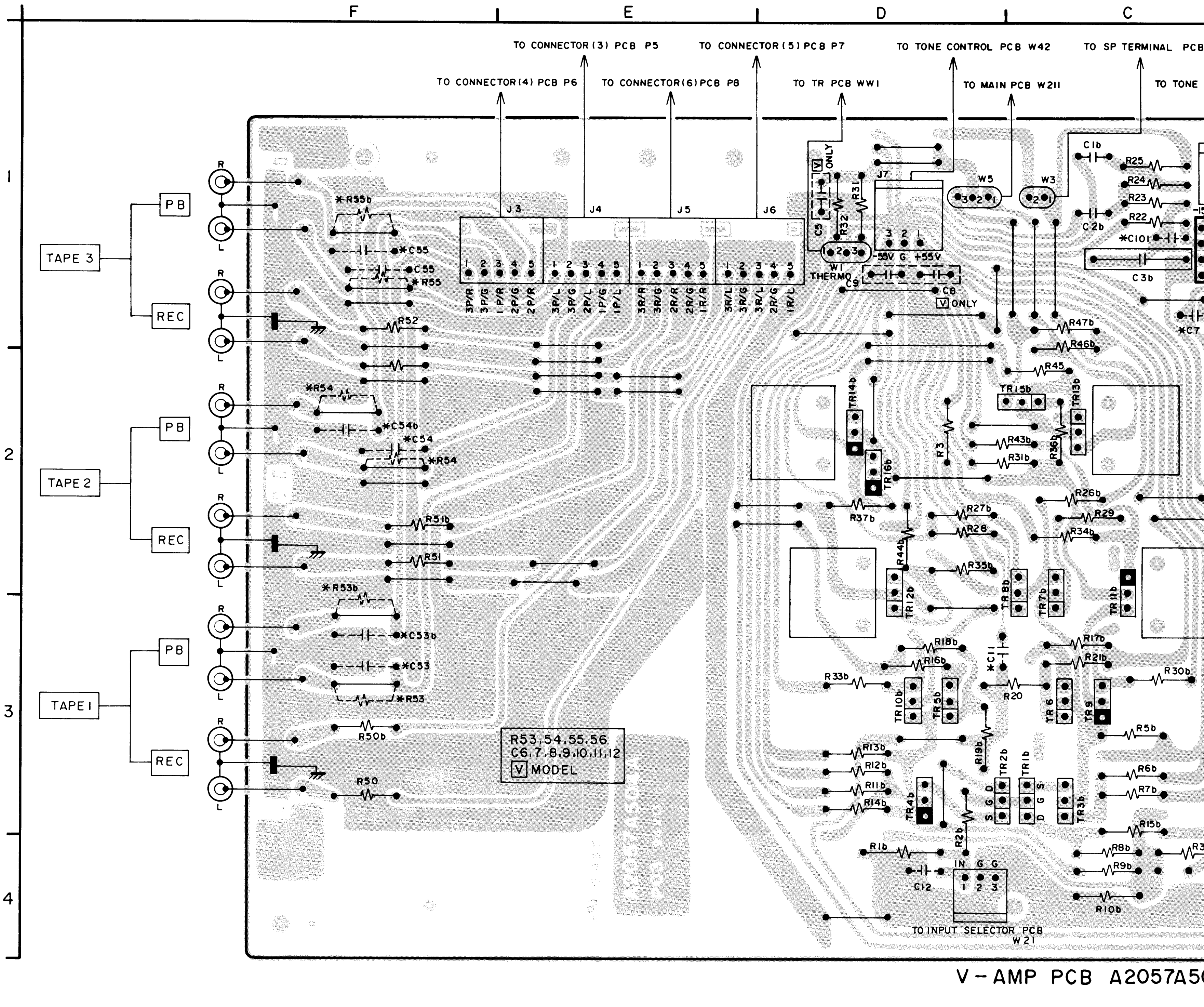
SP TERMINAL PCB A2057A503B (J1)


TO POWER TRANSFORMER
L301
F1
AC IN

FUSE PCB A2057A503C (J1) E

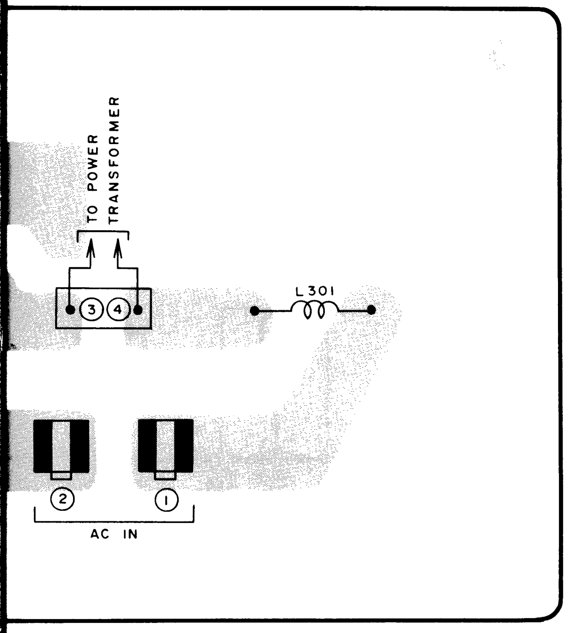

TO V AMP PCB W2
TO V AMP PCB W1
D201
D201b
R201
R201b
VR201
IDLING CURRENT (Lch)
WW2
WW1
C201
C201b
EXCEPT V
TR905
TR905b

TR PCB A2057A504C

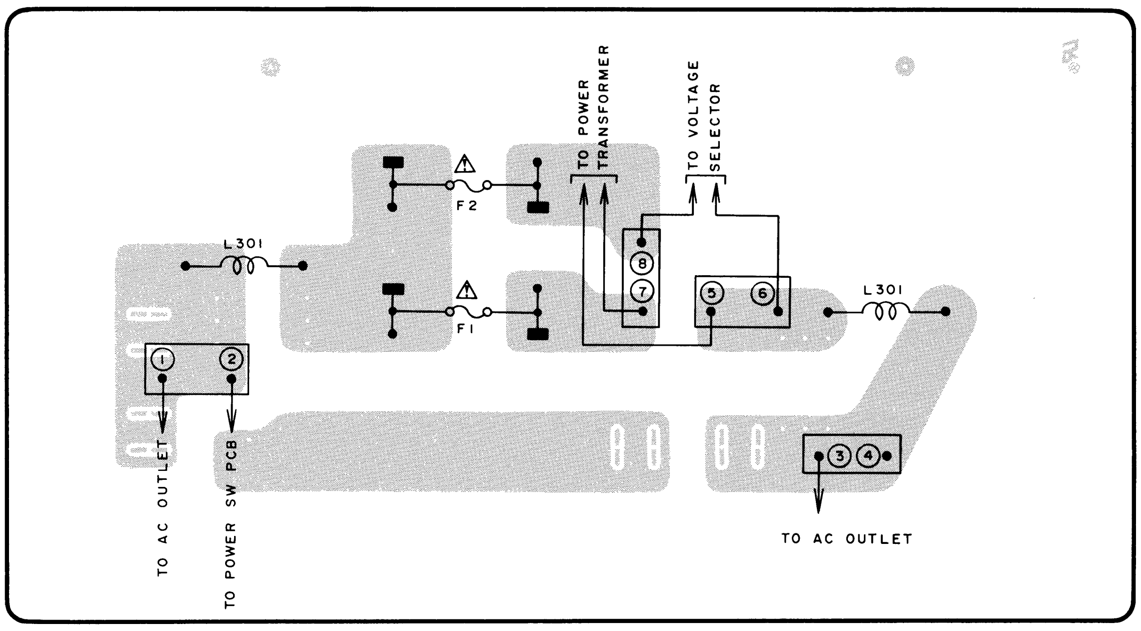

F
E
D
C
1
2
3
4
TO CONNECTOR (3) PCB P5
TO CONNECTOR (5) PCB P7
TO TONE CONTROL PCB W42
TO SP TERMINAL PCB
TO CONNECTOR (4) PCB P6
TO CONNECTOR (6) PCB P8
TO TR PCB WW1
TO MAIN PCB W211
TO TONE
TAPE 3
TAPE 2
TAPE 1
PB
REC
J3
J4
J5
J6
J7
W5
W3
W1
THERMO
V ONLY
R53.54.55.56
C6.7.8.9.10.11.12
V MODEL
TO INPUT SELECTOR PCB W21

V-AMP PCB A2057A5

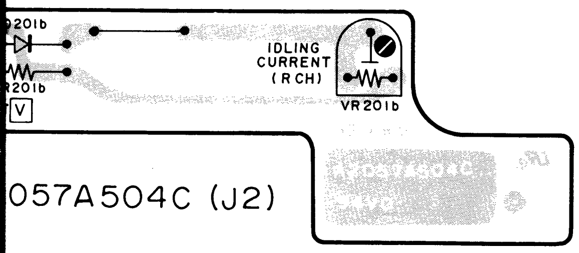
MC-Service


TO POWER TRANSFORMER
③ ④
L301
② ①
AC IN

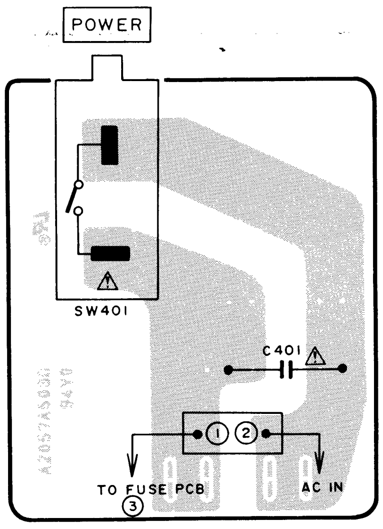
C (J1) E V B MODEL


TO POWER TRANSFORMER
TO VOLTAGE SELECTOR
F2
F1
L301
⑧ ⑦
⑤ ⑥
L301
① ②
TO AC OUTLET
TO POWER SW PCB
③ ④
TO AC OUTLET

FUSE PCB A2057A503C (J1) U MODEL


W1
D201b
R201b
V
IDLING CURRENT (RCH)
VR201b

057A504C (J2)


POWER
SW401
C401
① ②
TO FUSE PCB ③
AC IN

POWER SW PCB
A2057A503D(J1)

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

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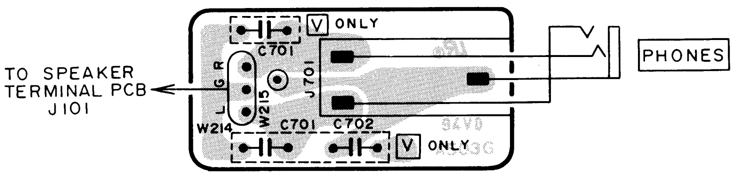
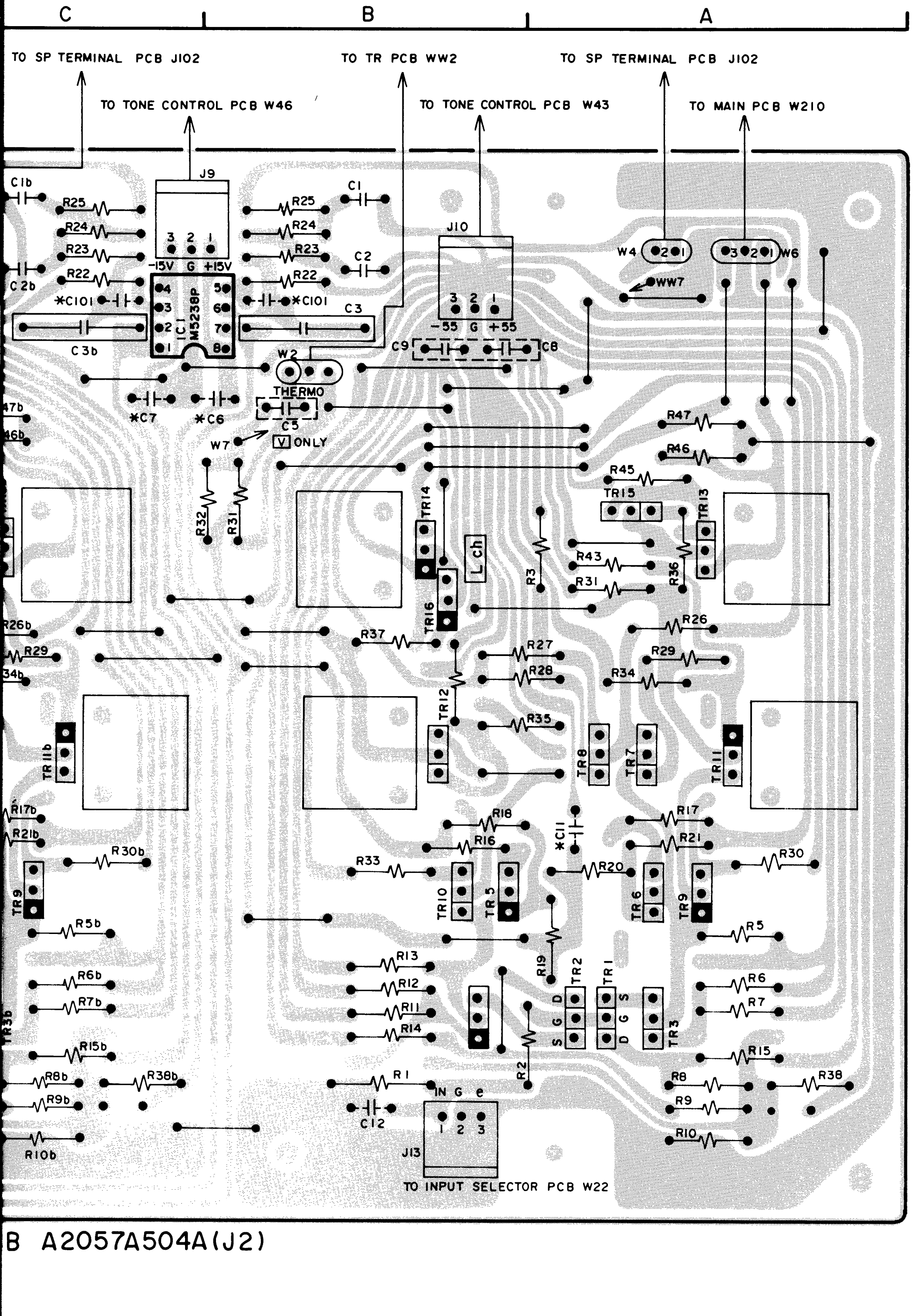

V ONLY
C701
TO SPEAKER TERMINAL PCB J101
L G R
W215
J701
W214
C701
C702
V ONLY
PHONES

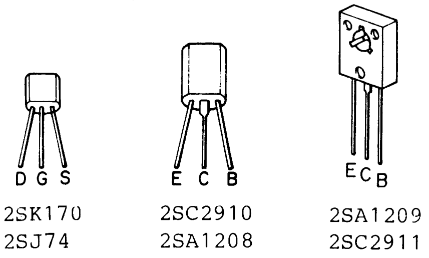
HEAD PHONE PCB
A2057A503G(J1)


C
B
A
TO SP TERMINAL PCB J102
TO TONE CONTROL PCB W46
TO TR PCB WW2
TO TONE CONTROL PCB W43
TO SP TERMINAL PCB J102
TO MAIN PCB W210
J9
J10
IC1 M5238P
-15V G +15V
-55 G +55
W4
W6
WW7
W2
THERMO
C5
W7
V ONLY
*C7
*C6
*C101
C8
C9
L ch
TR14
TR16
TR15
TR13
TR12
TR11b
TR8
TR7
TR11
TR9
TR10
TR5
TR6
TR2
TR1
TR3
R47
R46
R45
R43
R31
R36
R37
R27
R28
R29
R34
R35
R18
R16
R17
R21
R20
R30
R33
R13
R12
R11
R14
R19
R5
R6
R7
R15
R38
R8
R9
R10
R1
R2
C12
*C11
IN G e
1 2 3
J13
TO INPUT SELECTOR PCB W22

B A2057A504A(J2)

LOCATION OF COMPONENTS

IC	
IC1	C1
CONENCTORS	
J1	F3
J2	F1
J3	F1
J4	E1
J5	E1
J6	D1
J7	D1
J9	C1
J12	D4
J13	B4
WIRES	
W1	D1
W2	B1
W3	C1
W4	A1
W5	D1
W6	A1
TRANSISTORS	
TR1	A3
TR1b	C3
TR2	A3
TR2b	C3
TR3	A3
TR3b	C3
TR4	B3
TR4b	D3
TR5	B3
TR5b	D3
TR6	A3
TR6b	C3
TR7	A3
TR7b	C3
TR8	A3
TR8b	C3
TR9	A3
TR9b	C3
TR10	B3
TR10b	D3
TR11	A3
TR11b	C3
TR12	B3
TR12b	D3
TR13	A2
TR13b	C2
TR14	B2
TR14b	D2
TR15	A2
TR15b	C2
TR16	B2
TR16b	D2

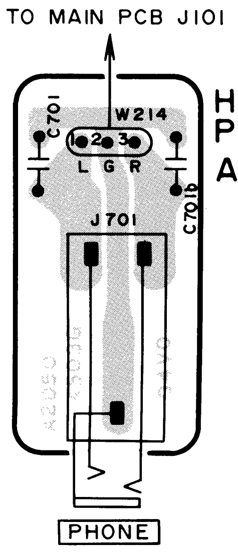

D G S
E C B
E C B
2SK170
2SJ74
2SC2910
2SA1208
2SA1209
2SC2911

B ●●● = NPN TRANSISTOR

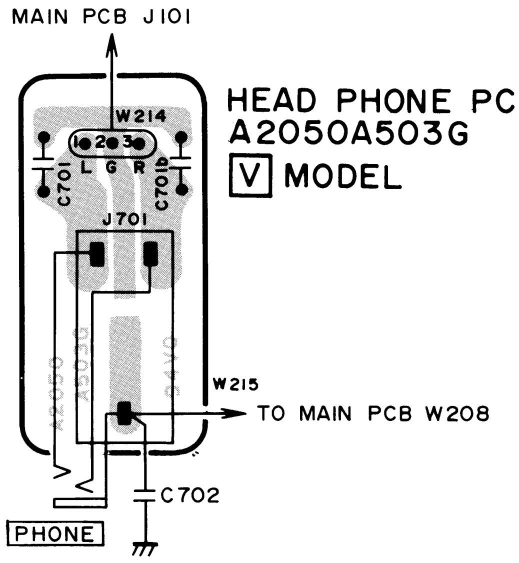
B ■●● = PNP TRANSISTOR

S G D ●●● = FET

✱ Indicated -ᴧᴧ- / -||- are V model only

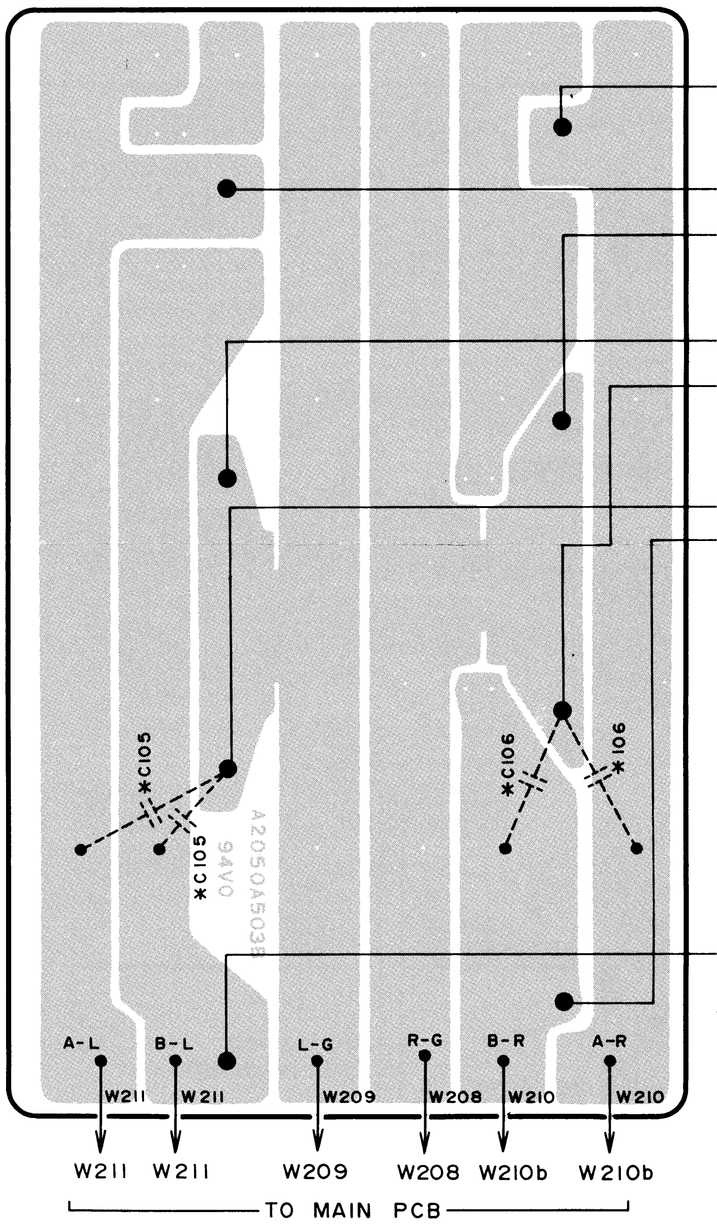

TO MAIN PCB J101
C701
W214
1 2 3
L G R
C701b
J701
A2050 503G 94V0
PHONE

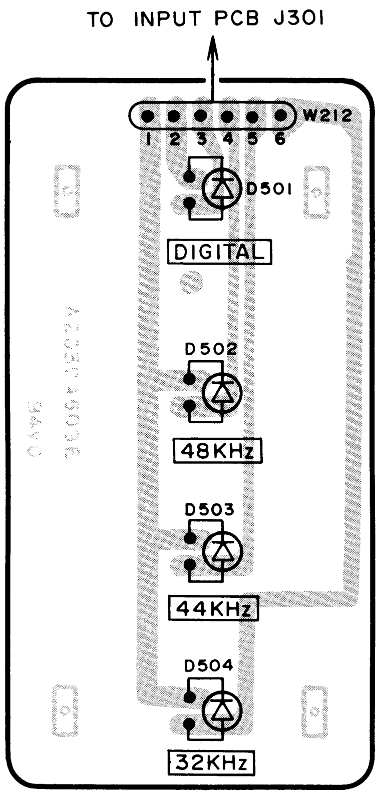
HEAD PHONE PCB
A2050A503G


TO MAIN PCB J101
W214
1 2 3
L G R
C701
C701b
J701
A2050 A503G 94V0
W215
TO MAIN PCB W208
C702
PHONE

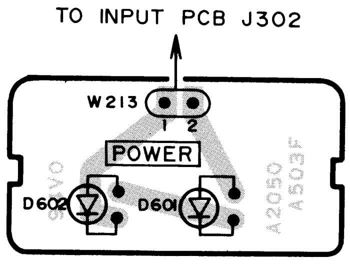
HEAD PHONE PCB
A2050A503G
V MODEL

SPEAKER PCB A2050A503B

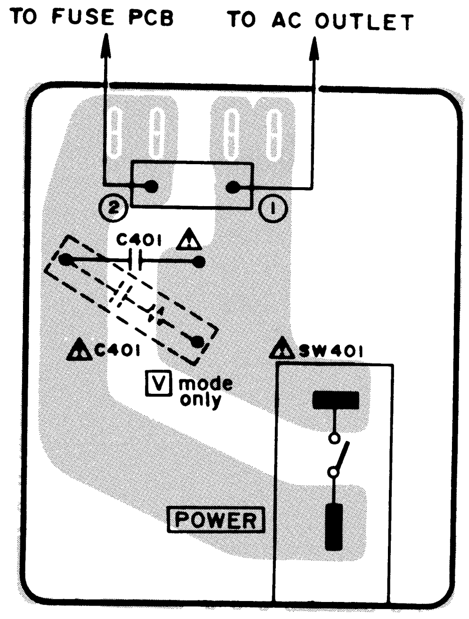

*C105
*C105
*C106
*106
A2050A503B 94V0
A-L
B-L
L-G
R-G
B-R
A-R
W211
W211
W209
W208
W210
W210
W211
W211
W209
W208
W210b
W210b
TO MAIN PCB


TO INPUT PCB J301
W212
1 2 3 4 5 6
D501
DIGITAL
A2050A503E 94V0
D502
48KHz
D503
44KHz
D504
32KHz

INDICATOR PCB
A2050A503E

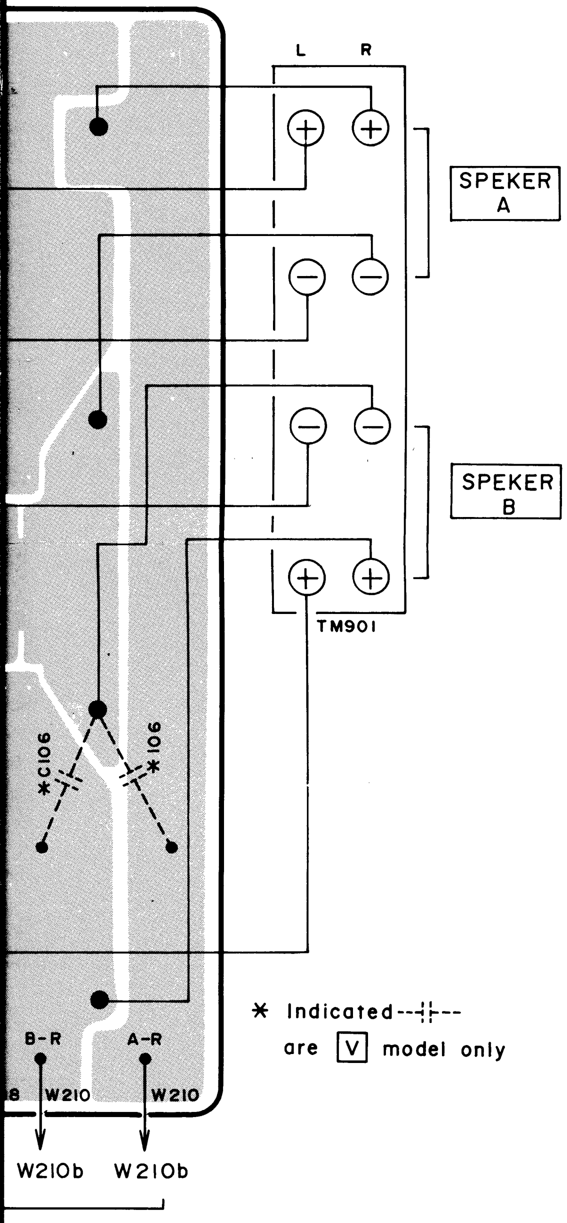

TO INPUT PCB J302
W213
1 2
POWER
94V0
D602
D601
A2050 A503F

POWER LED PCB
A2050A503F

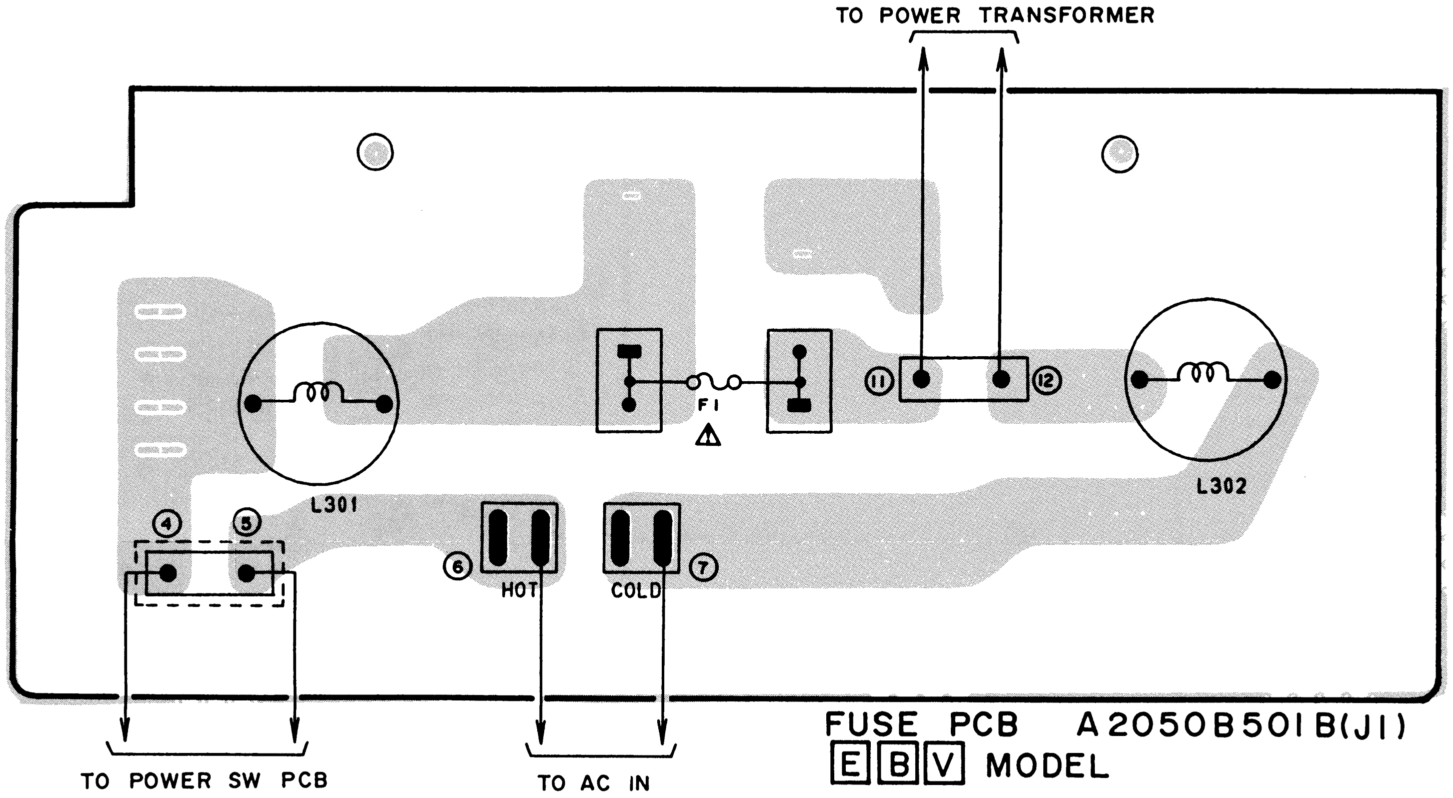

TO FUSE PCB
TO AC OUTLET
②
①
C401 ⚠
⚠C401
V mode only
⚠SW401
POWER

POWER SW PCB
A2050B501C(J1)

0A503B

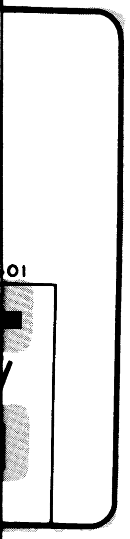

L
R
SPEKER A
SPEKER B
TM901
*C106
*106
B-R
A-R
W210
W210
W210b
W210b

* Indicated --||-- are V model only

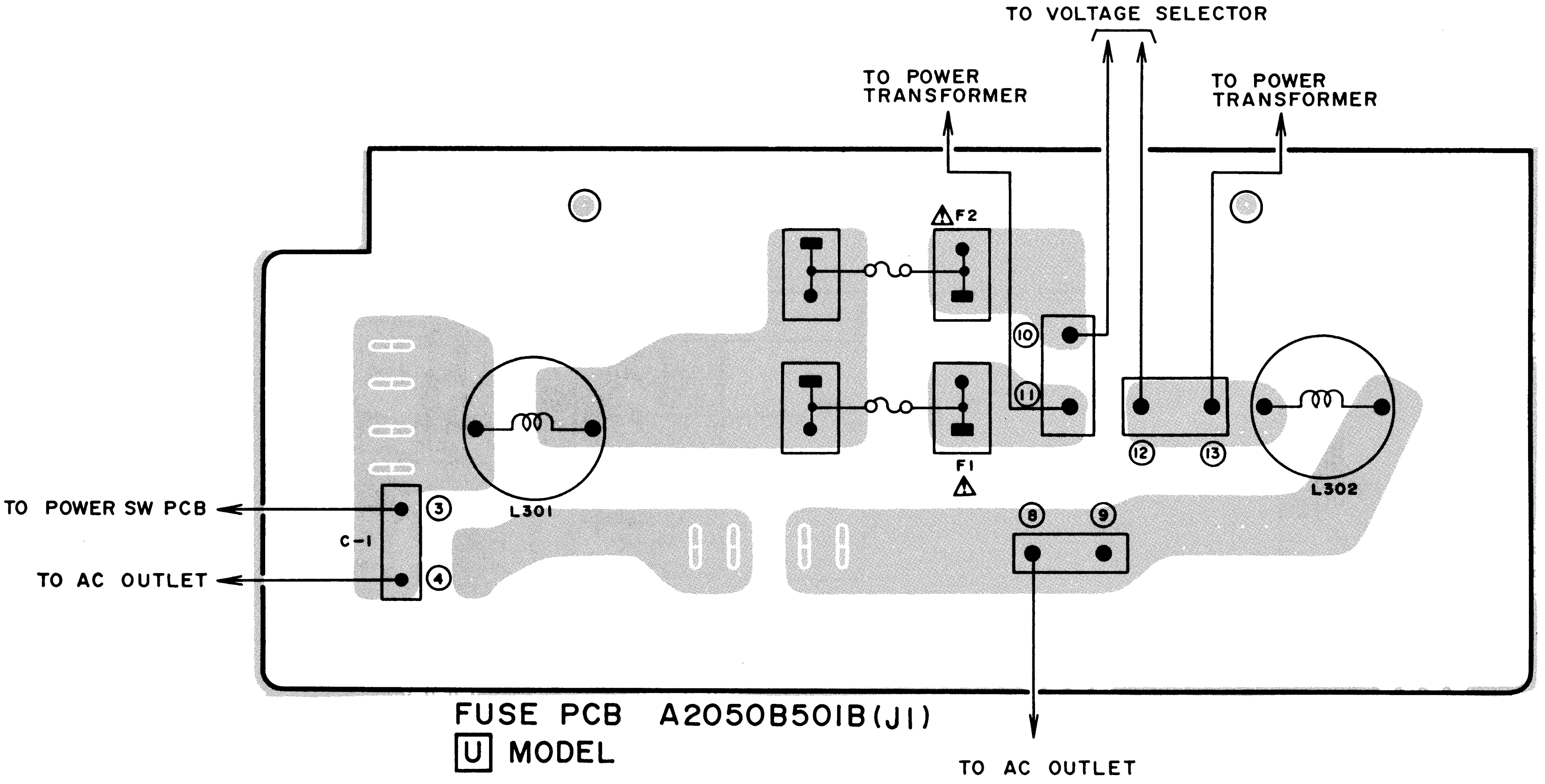

TO POWER TRANSFORMER
⑪
⑫
F1
L301
L302
④
⑤
⑥
⑦
HOT
COLD
TO POWER SW PCB
TO AC IN

FUSE PCB A2050B501B(J1)
E B V MODEL

ITLET



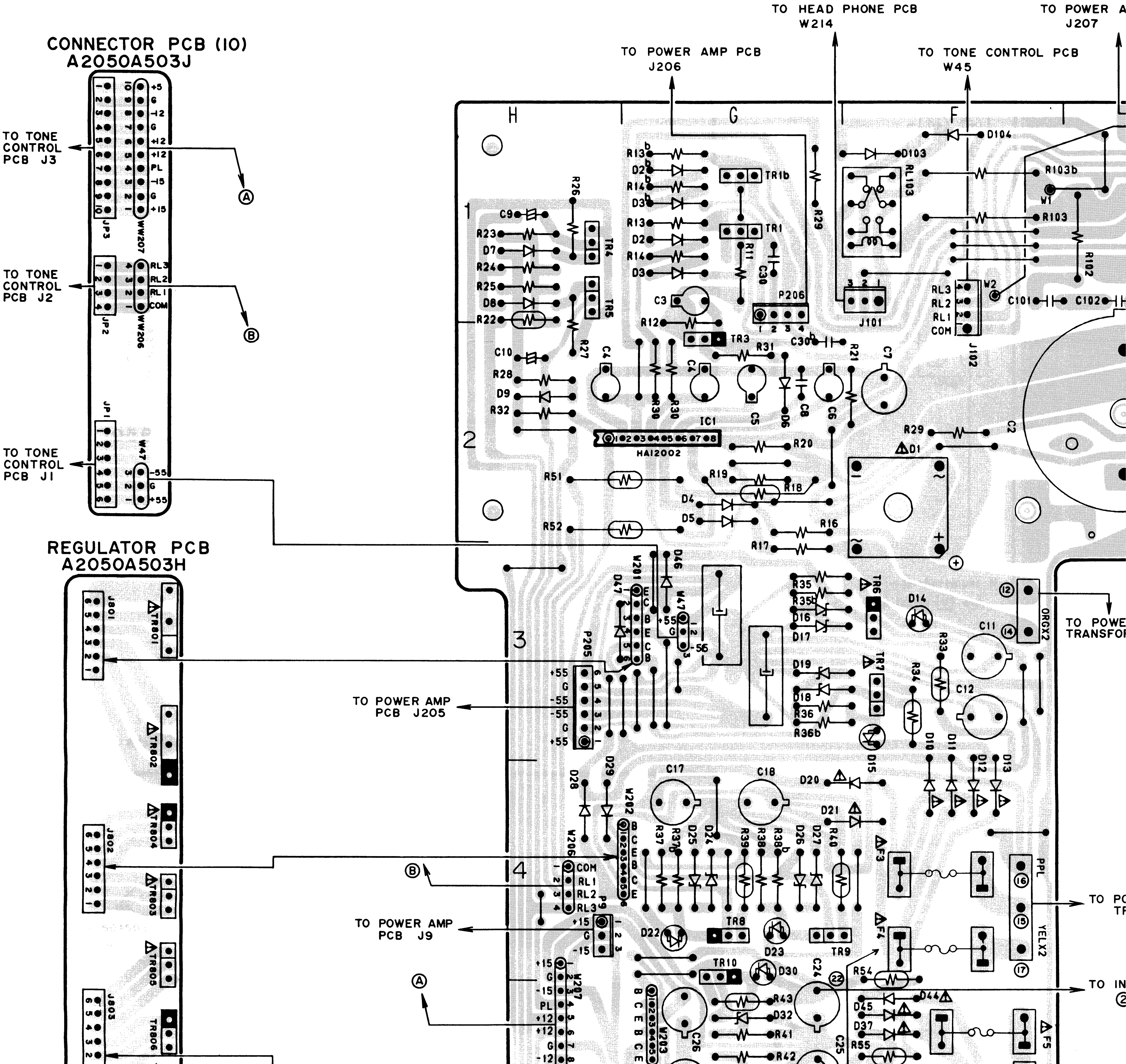
B
I)

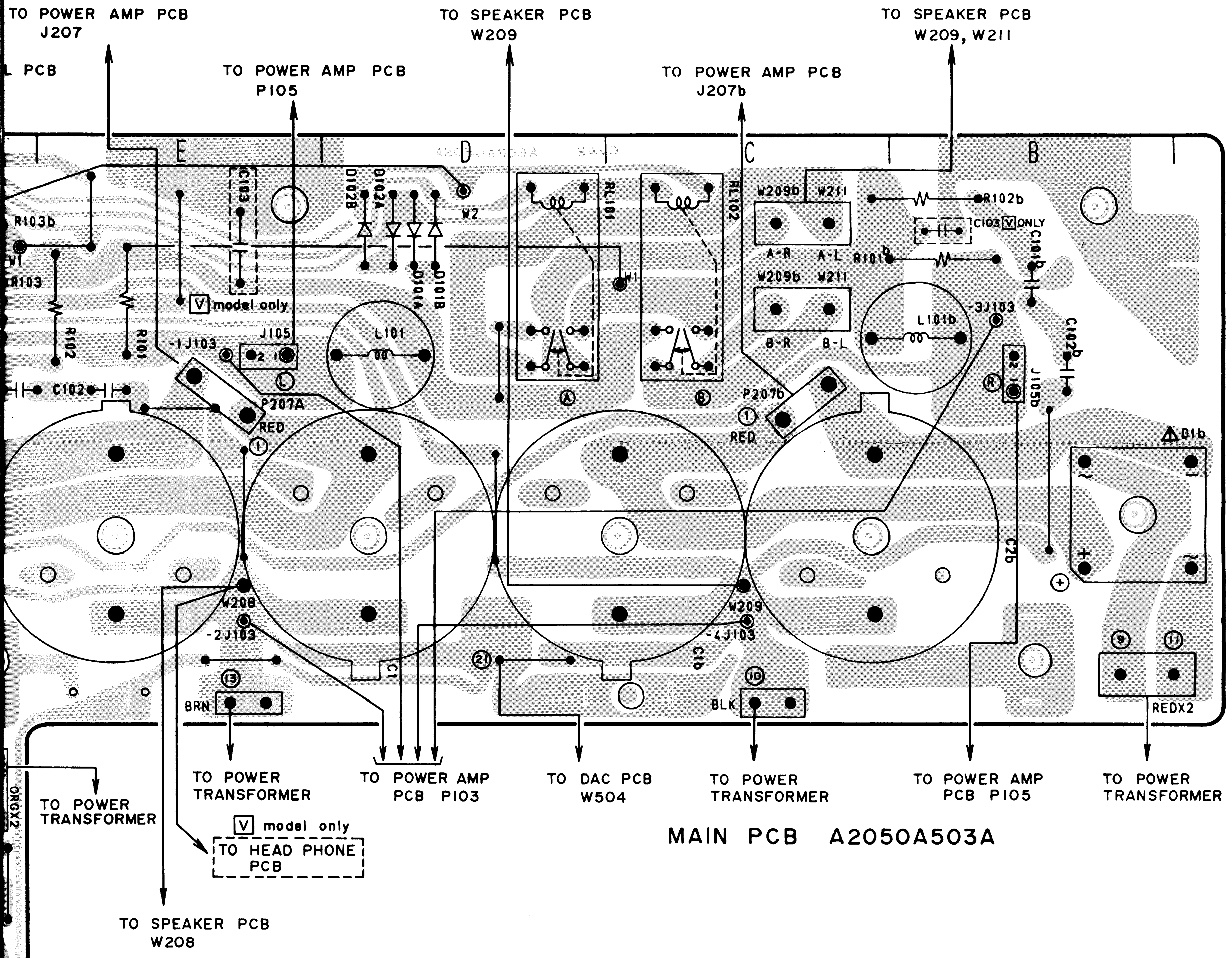

TO VOLTAGE SELECTOR
TO POWER TRANSFORMER
TO POWER TRANSFORMER
F2
⑩
⑪
⑫
⑬
F1
L301
L302
TO POWER SW PCB
TO AC OUTLET
C-1
③
④
⑧
⑨
TO AC OUTLET

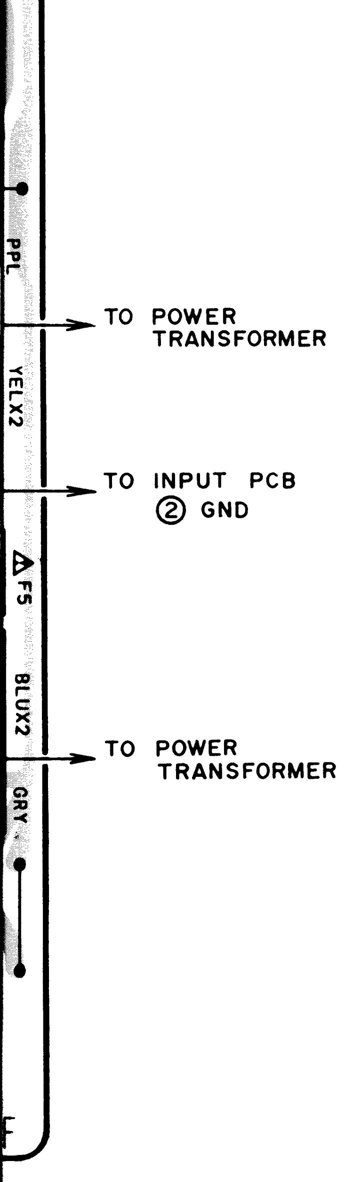
FUSE PCB A2050B501B(J1)
U MODEL

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

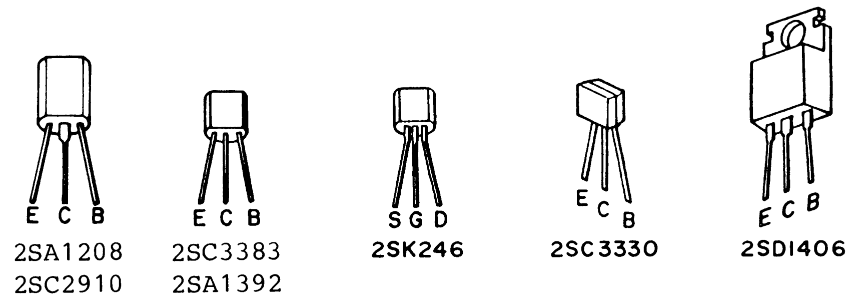
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


CONNECTOR PCB (10)
A2050A503J
TO TONE CONTROL PCB J3
TO TONE CONTROL PCB J2
TO TONE CONTROL PCB J1
JP3
JP2
JP1
WW207
WW206
W47
+5
G
-12
+12
PL
-15
+15
RL3
RL2
RL1
COM
-55
+55
Ⓐ
Ⓑ
REGULATOR PCB
A2050A503H
J801
J802
J803
J804
TR801
TR802
TR803
TR804
TR805
TR806
TR807
TR808
TR809
TO HEAD PHONE PCB
W214
TO POWER AMP PCB
J206
TO TONE CONTROL PCB
W45
TO POWER A
J207
H
G
F
1
2
3
4
5
6
TR1b
TR1
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
TR15
RL103
D103
D104
R103b
R103
R102
W1
W2
J101
J102
P206
C101
C102
IC1
HA12002
D1
R29
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C30
C30b
R11
R12
R13
R13b
R14
R14b
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R30
R30b
R31
R32
R51
R52
D2
D2b
D3
D3b
D4
D5
D6
D7
D8
D9
D14
D15
D16
D17
D18
D19
R33
R34
R35
R35b
R36
R36b
D10
D11
D12
D13
ORGX2
TO POWE
TRANSFO
W201
W202
W203
W204
W206
W207
P205
P9
D46
D47
W47
+55
G
-55
-56
TO POWER AMP PCB J205
TO POWER AMP PCB J9
C17
C18
D20
D21
D22
D23
D24
D25
D26
D27
D28
D29
D30
D31
D32
D33
R37
R37b
R38
R38b
R39
R40
R41
R42
R43
R44
F3
F4
F5
PPL
YELX2
BLUX2
GRY
TO PO
TR
TO IN
TO PO
T
C24
C25
C26
C27
C23
C22
C21
C20
C29
C19
R53
R54
R55
R56
R57
R58
R59
R45
R47
R48
R49
R50
D34
D35
D36
D37
D38
D39
D40
D41
D42
D43
D44
D45
COM
RL1
RL2
RL3
B
C
E
CAUTION:
TO PREVENT FIRE HAZARD,
REPLACE ONLY WITH SAME
TYPE FUSE.
ATTENTION:
REMPLACEZ UNIQUEMENT
PAR UN FUSIBLE DE MEME TYPE.


TO POWER AMP PCB
J207
L PCB
TO POWER AMP PCB
P105
TO SPEAKER PCB
W209
TO POWER AMP PCB
J207b
TO SPEAKER PCB
W209, W211
E
D
C
B
C103
D102B
D102A
D101A
D101B
W2
RL101
RL102
W1
R103b
W1
R103
R102
R101
V model only
J105
2 1
L
L101
-1J103
C102
P207A
RED
①
A
B
W209b
W211
A-R
A-L
B-R
B-L
R102b
C103 V ONLY
R101b
C101b
L101b
-3J103
C102b
J105b
R
P207b
①
RED
⚠D1b
C2b
W208
-2J103
C1
㉑
W209
-4J103
C1b
⑬
BRN
⑩
BLK
⑨
⑪
REDX2
TO POWER TRANSFORMER
TO POWER AMP PCB P103
TO DAC PCB W504
TO POWER TRANSFORMER
TO POWER AMP PCB P105
TO POWER TRANSFORMER
ORGX2
TO POWER TRANSFORMER
V model only
TO HEAD PHONE PCB
TO SPEAKER PCB
W208

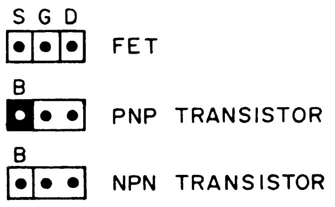

PPL
TO POWER TRANSFORMER
YELX2
TO INPUT PCB
② GND
⚠F5
BLUX2
GRY
TO POWER TRANSFORMER

MAIN PCB A2050A503A


E C B
2SA1208
2SC2910
E C B
2SC3383
2SA1392
S G D
2SK246
E C B
2SC3330
E C B
2SD1406

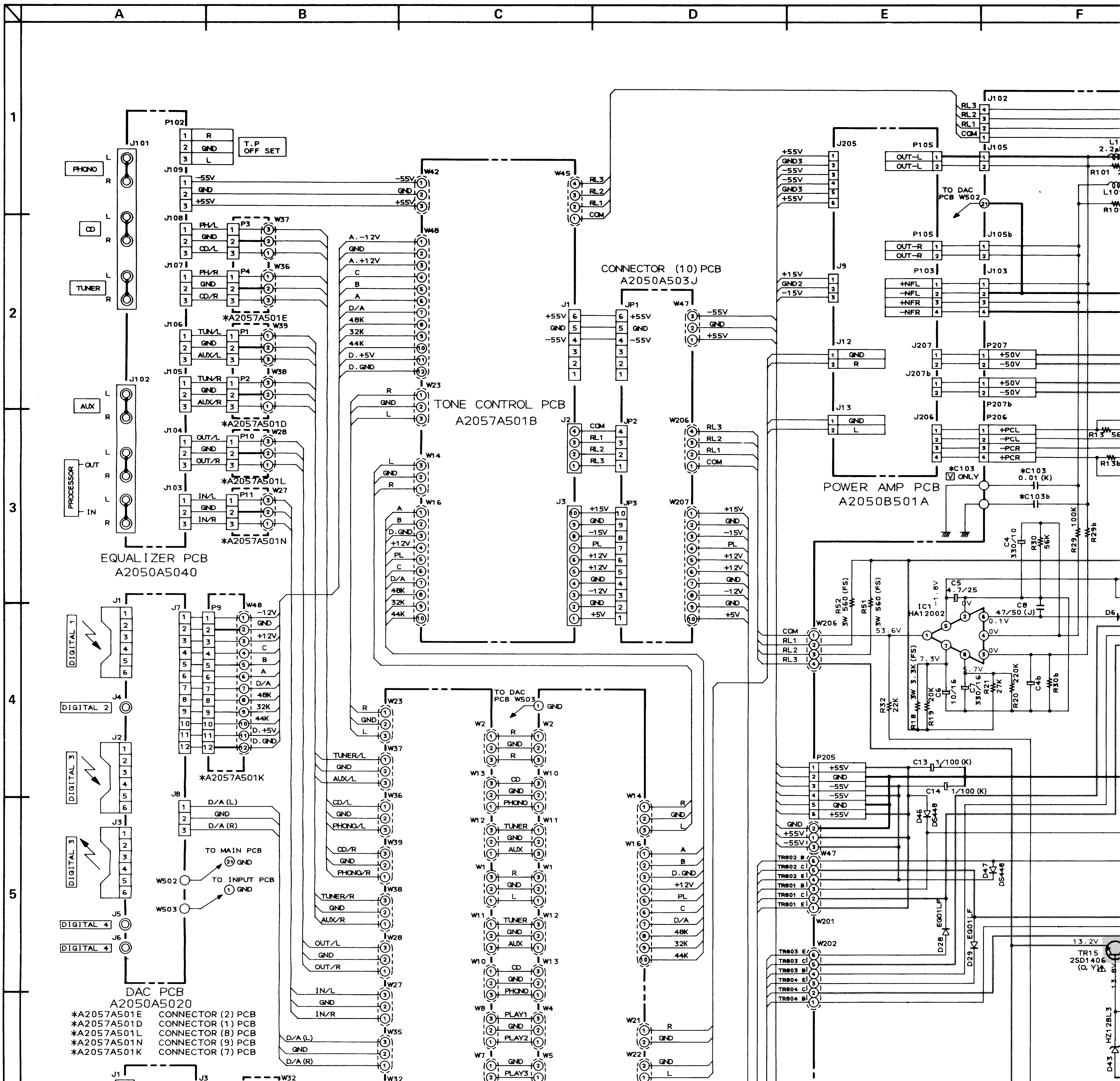
LOCATION OF COMPONENTS

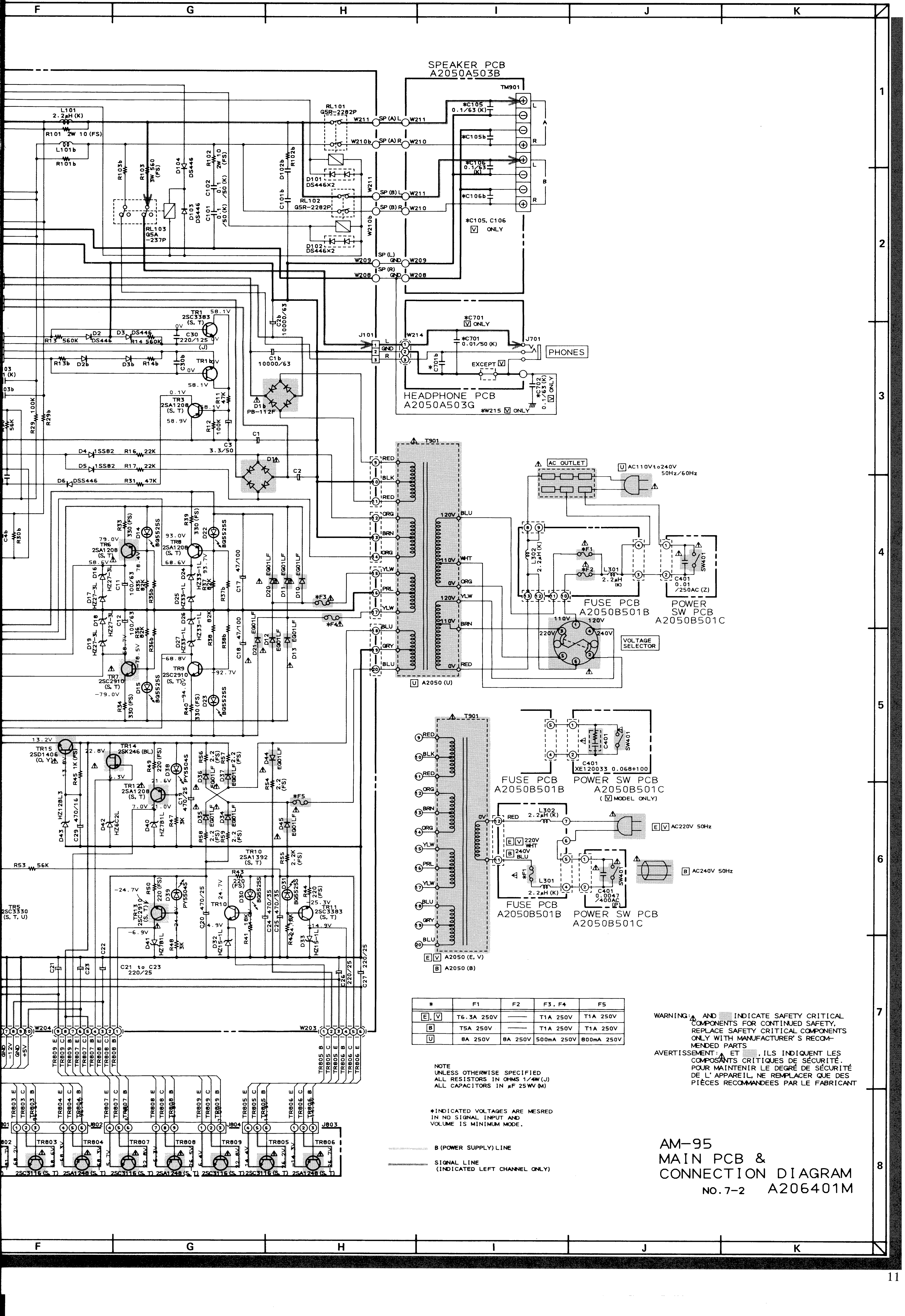
IC		TRANSISTOR	
IC 1	G2	TR 1	G1
		TR 1b	G1
CONNECTOR		TR 3	G2
J101	F1	TR 4	H1
J102	F1	TR 5	H1
J105	E1	TR 6	F3
J105b	B1	TR 7	F3
		TR 8	G4
P9	H4	TR 9	G4
P205	H3	TR10	G4
P206	G1	TR11	G5
P207A	E1	TR12	G6
P207	C1	TR13	G5
		TR14	G6
		TR15	G6


S G D
FET
B
PNP TRANSISTOR
B
NPN TRANSISTOR

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


A
B
C
D
E
F
EQUALIZER PCB
A2050A5040
PHONO
CD
TUNER
AUX
PROCESSOR
OUT
IN
T.P OFF SET
*A2057A501E
*A2057A501D
*A2057A501L
*A2057A501N
*A2057A501K
DIGITAL 1
DIGITAL 2
DIGITAL 3
DIGITAL 4
TO MAIN PCB
TO INPUT PCB
DAC PCB
A2050A5020
*A2057A501E CONNECTOR (2) PCB
*A2057A501D CONNECTOR (1) PCB
*A2057A501L CONNECTOR (8) PCB
*A2057A501N CONNECTOR (9) PCB
*A2057A501K CONNECTOR (7) PCB
TAPE1
TAPE2
TAPE3
REC
PLAY
*A2057A501G
*A2057A501F
*A2057A501J
*A2057A501H
TAPE PCB
A2050A503C
*A2057A501G CONNECTOR (4) PCB
*A2057A501F CONNECTOR (3) PCB
*A2057A501J CONNECTOR (6) PCB
*A2057A501H CONNECTOR (5) PCB
TONE CONTROL PCB
A2057A501B
CONNECTOR (10) PCB
A2050A503J
TO DAC PCB W503
REC SELECTOR PCB
A2057A501C
INPUT PCB
A2057A501A
INDICATOR PCB
A2050A503E
POWER LED PCB
A2050A503F
TO DAC PCB W502
POWER AMP PCB
A2050B501A
*C103 V ONLY
IC1 HA12002
TR15 2SD1406 (O, Y)
TR4 2SC3330 (S, T, U)
TR5 2SC3330 (S, T, U)
D7, D8, D9 DSS448BT
MAIN (A) PCB
A2050A503A
REGULATOR PCB
A2050A503H
TR801
TR802
TR803
2SC3298 (Y)
2SA1306 (Y)
2SC3116 (S, T)


F
G
H
I
J
K
1
2
3
4
5
6
7
8
SPEAKER PCB
A2050A503B
TM901
L
A
R
B
*C105
0.1/63 (K)
*C105b
*C106
0.1/63
(K)
*C106b
*C105, C106
V ONLY
RL101
G5R-2282P
RL102
G5R-2282P
RL103
G5A
-237P
D101
DS446×2
D102
DS446×2
SP (A) L
SP (A) R
SP (B) L
SP (B) R
SP (L)
SP (R)
GND
W211
W210
W210b
W209
W208
L101
2.2μH (K)
R101 2W 10 (FS)
L101b
R101b
R103b
R103
3W 560
(FS)
D104
DS446
D103
DS446
R102
2W 10
(FS)
R102b
D102b
C102
/50 (K)
C101
/50 (K)
C101b
TR1
2SC3383
(S, T)
58.1V
TR1b
TR3
2SA1208
(S, T)
58.9V
C30
220/125
(J)
C30b
R13 560K
D2 DS446
D3 DS446
R14 560K
R13b
D2b
D3b
R14b
R11
47K
R12
100K
R29
100K
R29b
C2b
10000/63
C1b
10000/63
D1b
PB-112F
D1
C1
C2
C3
3.3/50
D4 1SS82
D5 1SS82
D6 DSS446
R16 22K
R17 22K
R31 47K
J101
L
GND
R
W214
*C701
V ONLY
*C701
0.01/50 (K)
C701b
EXCEPT V
J701
PHONES
*C702
0.1/63 (K)
V ONLY
HEADPHONE PCB
A2050A503G
*W215 V ONLY
T901
RED
BLK
ORG
BRN
YLW
PRL
BLU
GRY
WHT
120V
110V
0V
220V
240V
A2050 (U)
AC OUTLET
U AC110Vto240V
50Hz/60Hz
L302
2.2μH (K)
*F1
*F2
L301
2.2μH
(K)
FUSE PCB
A2050B501B
C401
0.01
/250AC (Z)
SW401
POWER
SW PCB
A2050B501C
VOLTAGE
SELECTOR
TR6
2SA1208
(S, T)
79.0V
58.6V
TR8
2SA1208
(S, T)
93.0V
68.6V
TR7
2SC2910
(S, T)
-79.0V
TR9
2SC2910
(S, T)
-92.7V
-68.8V
R33
330 (FS)
R39
330 (FS)
R34
330 (FS)
R40
330 (FS)
D14
BG5525S
D22
BG5525S
D15
BG5525S
D23
BG5525S
D16
HZ27-3L
D17
HZ27-3L
D18
D19
HZ27-3L
D24
HZ33-1L
D25
HZ33-1L
D26
HZ33-1L
D27
HZ33-1L
C11
100/63
C12
100/63
C17
47/100
C18
47/100
D10
D11
D12
D13
D20
D21
EG01LF
*F3
*F4
*F5
TR15
2SD1406
(O, Y)
13.2V
TR14
2SK246 (BL)
22.8V
TR12
2SA1208
(S, T)
TR10
2SA1392
(S, T)
TR11
2SC3383
(S, T)
TR13
2SC2910
(S, T)
TR5
2SC3330
(S, T, U)
R53 56K
HZ12BL3
C29
470/16
D42
HZ6C2L
D40
HZ7B1L
R47
3K
C19
470/25
D38
PY5504S
D36
D37
D34
D35
R56
R57
R58
R59
2.2 (FS)
D44
D45
R54
R55
2.2K
R43
220 (FS)
R44
220 (FS)
R50
220 (FS)
D39
PY5504S
D30
BG5525S
D31
BG5525S
C20
470/25
C24
470/35
C25
470/35
D32
HZ15-1L
D33
HZ15-1L
D41
HZ7B1L
R48
3K
C21
C22
C23
C21 to C23
220/25
C26
220/25
C27
220/25
W204
W203
GND
-12V
+5V
TR803
TR804
TR805
TR806
TR807
TR808
TR809
J802
J803
J804
2SC3116 (S, T)
2SA1248 (S, T)
T901
E V 220V
WHT
B 240V
BLU
FUSE PCB
A2050B501B
POWER SW PCB
A2050B501C
(V MODEL ONLY)
C401
XE120033 0.068+100
C401
0.0047
/400AC
E V AC220V 50Hz
B AC240V 50Hz
E V A2050 (E, V)
B A2050 (B)

*	F1	F2	F3, F4	F5
E, V	T6.3A 250V	——	T1A 250V	T1A 250V
B	T5A 250V	——	T1A 250V	T1A 250V
U	8A 250V	8A 250V	500mA 250V	800mA 250V

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 25WV (M)

*INDICATED VOLTAGES ARE MESRED IN NO SIGNAL INPUT AND VOLUME IS MINIMUM MODE.

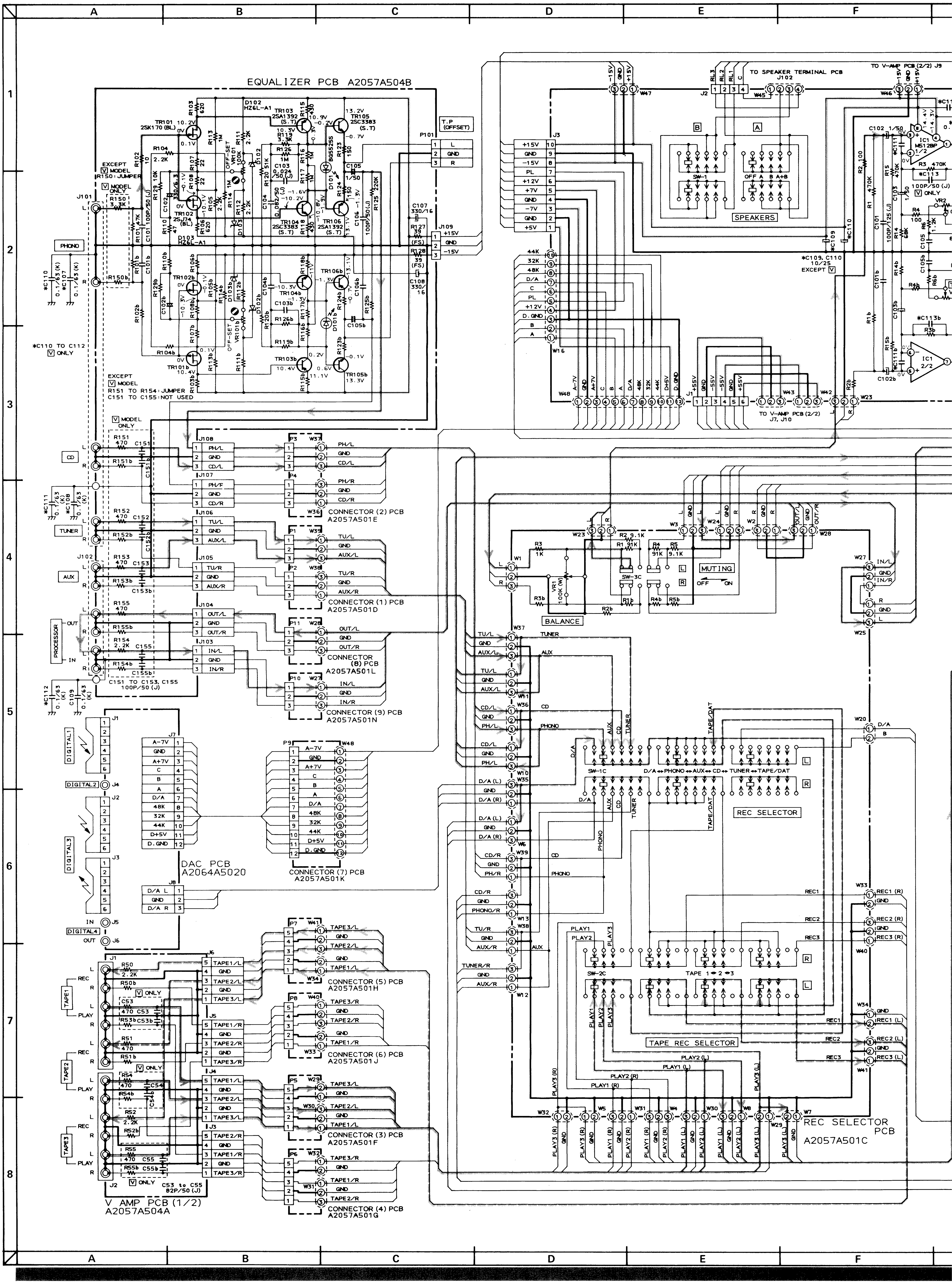
▨ B (POWER SUPPLY) LINE

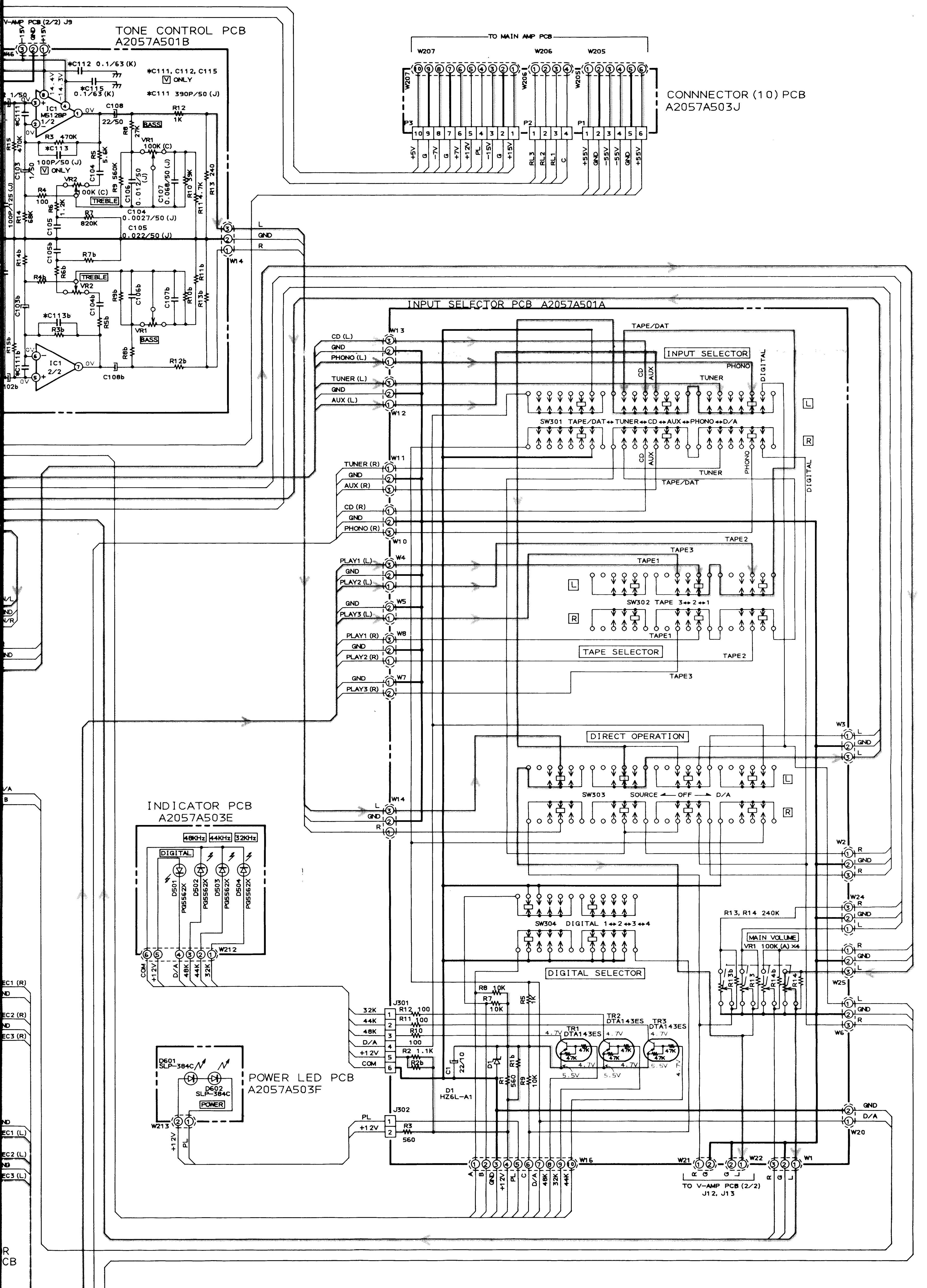
▬ SIGNAL LINE
(INDICATED LEFT CHANNEL ONLY)

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AM-95
MAIN PCB &
CONNECTION DIAGRAM
NO.7-2 A206401M


A
B
C
D
E
F
1
2
3
4
5
6
7
8
EQUALIZER PCB A2057A504B
TR101 2SK170 (BL)
TR102 2SJ74 (BL)
TR103 2SA1392 (S.T)
TR104 2SC3383 (S.T)
TR105 2SC3383 (S.T)
TR106 2SA1392 (S.T)
D102 HZ6L-A1
D103 HZ6L-A1
D101 BG5525S
VR101 100K OFF-SET
VR101b OFF-SET
T.P (OFFSET)
P101
L
GND
R
J109
+15V
GND
-15V
C107 330/16
C108 330/16
R127 39 (FS)
R128 39 (FS)
EXCEPT V MODEL R150: JUMPER
V MODEL ONLY
R150 3.3K
R150b
J101
PHONO
*C110 0.1/63 (K)
*C107 0.1/63 (K)
*C110 TO C112 V ONLY
EXCEPT V MODEL R151 TO R154: JUMPER C151 TO C155: NOT USED
V MODEL ONLY
CD
TUNER
AUX
PROCESSOR
OUT
IN
J102
R151 470
R152 470
R153 470
R155 470
R154 2.2K
C151 TO C153, C155 100P/50 (J)
*C111 0.1/63 (K)
*C108 0.1/63 (K)
*C112 0.1/63 (K)
*C109 0.1/63 (K)
J108
PH/L
GND
CD/L
J107
PH/F
CD/R
J106
TU/L
AUX/L
J105
TU/R
AUX/R
J104
OUT/L
OUT/R
J103
IN/L
IN/R
P3 W37
P4 W36
P1 W39
P2 W38
P11 W28
P10 W27
CONNECTOR (2) PCB A2057A501E
CONNECTOR (1) PCB A2057A501D
CONNECTOR (8) PCB A2057A501L
CONNECTOR (9) PCB A2057A501N
DIGITAL1
DIGITAL2
DIGITAL3
DIGITAL4
IN
OUT
J1
J2
J3
J4
J5
J6
J7
J8
A-7V
GND
A+7V
C
B
A
D/A
48K
32K
44K
D+5V
D.GND
D/A L
D/A R
DAC PCB A2064A5020
P9 W48
CONNECTOR (7) PCB A2057A501K
TAPE1
TAPE2
TAPE3
REC
PLAY
R50 2.2K
R50b
V ONLY
C53 470
R53b
R51 470
R51b
R54 470
R54b
R52 2.2K
R52b
R55 470
R55b
C53 to C55 82P/50 (J)
TAPE1/L
TAPE2/L
TAPE3/L
TAPE1/R
TAPE2/R
TAPE3/R
P7 W41
P8 W40
P5 W29
P6 W32
W34
W33
W30
W31
CONNECTOR (5) PCB A2057A501H
CONNECTOR (6) PCB A2057A501J
CONNECTOR (3) PCB A2057A501F
CONNECTOR (4) PCB A2057A501G
V AMP PCB (1/2) A2057A504A
-15V
GND
+15V
W47
RL3
RL2
RL1
C
TO SPEAKER TERMINAL PCB
J102
W45
J2
SW-1
OFF A B A+B
SPEAKERS
J3
+15V
-15V
PL
+12V
+7V
-7V
+5V
W16
W48
+55V
-55V
W43
W42
TO V-AMP PCB (2/2) J7, J10
W23
TO V-AMP PCB (2/2) J9
W46
IC1 M5128P 1/2
IC1 2/2
C102 1/50
*C111
*C113
R3 470K
100P/50 (J)
V ONLY
*C109, C110 10/25 EXCEPT V
*C113b
R3b
W1
R3 1K
R2 9.1K
R1 91K
R4 91K
R5 9.1K
SW-3C
MUTING
OFF
ON
VR1 100K (W)
BALANCE
W24
W2
W3
W28
W27
IN/L
IN/R
W25
W37
TUNER
AUX
W11
W36
CD
PHONO
W10
W35
D/A (L)
D/A (R)
W6
W39
CD/R
PH/R
W13
PHONO/R
W38
TU/R
AUX/R
W12
TUNER/R
W20
D/A
SW-1C
D/A ↔ PHONO ↔ AUX ↔ CD ↔ TUNER ↔ TAPE/DAT
TAPE/DAT
REC SELECTOR
W33
REC1 (R)
REC2 (R)
REC3 (R)
REC1
REC2
REC3
W40
PLAY1
PLAY2
PLAY3
SW-2C
TAPE 1 ↔ 2 ↔ 3
TAPE REC SELECTOR
W34
REC1 (L)
REC2 (L)
REC3 (L)
W41
PLAY2 (L)
PLAY1 (L)
PLAY2 (R)
PLAY1 (R)
PLAY3 (R)
PLAY3 (L)
W32
W5
W31
W4
W30
W8
W29
W7
REC SELECTOR PCB A2057A501C

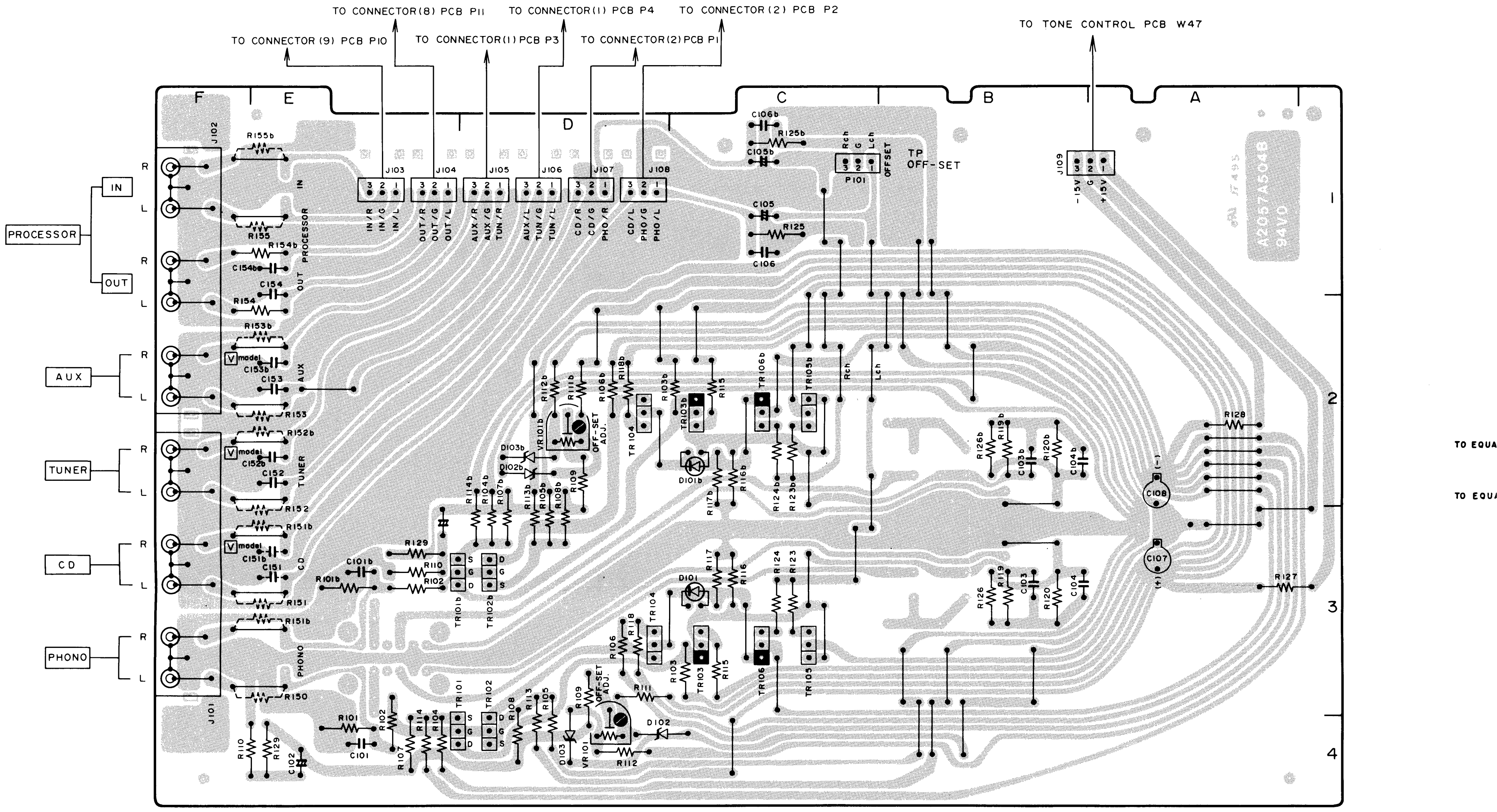

G
H
I
J
K
1
2
3
4
5
6
7
8
V-AMP PCB (2/2) J9
−15V
GND
+15V
TONE CONTROL PCB
A2057A501B
*C112 0.1/63 (K)
*C111, C112, C115
V ONLY
*C115 0.1/63 (K)
*C111 390P/50 (J)
IC1
M5128P
1/2
C108
22/50
R12
1K
R8
27K
BASS
VR1
100K (C)
R3 470K
*C113
R5
5.6K
100P/50 (J)
V ONLY
C104
R9 560K
C106 0.012/50 (J)
C107 0.068/50 (J)
R10 39K
R11 4.7K
R13 240
R4
100
VR2
100K (C)
TREBLE
R6
1.2K
R7
820K
C104
0.0027/50 (J)
C105
0.022/50 (J)
R14
68K
L
GND
R
W14
R7b
R4b
R6b
TREBLE
VR2
C104b
R9b
C106b
C107b
R10b
R11b
R13b
*C113b
R3b
R5b
VR1
BASS
R8b
IC1
2/2
C108b
R12b
TO MAIN AMP PCB
W207
W206
W205
P3
P2
P1
+5V
G
−7V
G
+7V
+12V
PL
−15V
G
+15V
RL3
RL2
RL1
C
+55V
GND
−55V
−55V
GND
+55V
CONNNECTOR (10) PCB
A2057A503J
INPUT SELECTOR PCB A2057A501A
W13
CD (L)
GND
PHONO (L)
TUNER (L)
GND
AUX (L)
W12
TAPE/DAT
INPUT SELECTOR
PHONO
TUNER
CD
AUX
DIGITAL
SW301 TAPE/DAT ↔ TUNER ↔ CD ↔ AUX ↔ PHONO ↔ D/A
W11
TUNER (R)
GND
AUX (R)
CD (R)
GND
PHONO (R)
W10
PLAY1 (L)
GND
PLAY2 (L)
W4
GND
PLAY3 (L)
W5
PLAY1 (R)
GND
PLAY2 (R)
W8
GND
PLAY3 (R)
W7
TAPE1
TAPE2
TAPE3
SW302 TAPE 3 ↔ 2 ↔ 1
TAPE SELECTOR
DIRECT OPERATION
SW303 SOURCE ← OFF → D/A
W3
W2
W24
W25
W6
W14
L
GND
R
INDICATOR PCB
A2057A503E
48KHz
44KHz
32KHz
DIGITAL
D501
D502
D503
D504
PG5562X
W212
COM
+12V
D/A
48K
44K
32K
SW304 DIGITAL 1 ↔ 2 ↔ 3 ↔ 4
DIGITAL SELECTOR
R13, R14 240K
MAIN VOLUME
VR1 100K (A) X4
R13b
R13
R14b
R14
J301
32K
44K
48K
D/A
+12V
COM
R12 100
R11 100
R10 100
R2 1.1K
R2b
R8 10K
R7 10K
R5 1K
C1 22/10
D1
HZ6L−A1
R1 560
R1b
R9 10K
TR1 DTA143ES
TR2 DTA143ES
TR3 DTA143ES
4.7V
5.5V
47K
D601
SLP−384C
D602
SLP−384C
POWER
POWER LED PCB
A2057A503F
W213
+12V
PL
J302
PL
+12V
R3
560
W16
A
B
GND
+12V
PL
C
D/A
48K
32K
44K
W20
GND
D/A
W21
W22
W1
R
G
L
TO V-AMP PCB (2/2)
J12, J13

B (POWER SUPPLY) LINE
MAIN SIGNAL LINE
REC OUT SIGNAL LINE

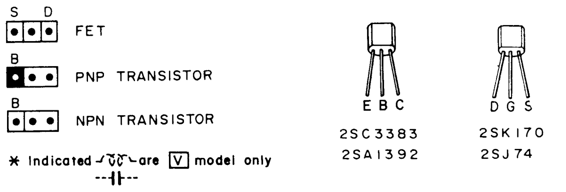
NOTE
UNLESS OTHERWISE SPECIFIED;
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 25 WV (M)

AM−75
EQUALIZER & INPUT PCB
SCHEMATIC DIAGRAM

NO. 7−3 A206502M


TO CONNECTOR (9) PCB P10
TO CONNECTOR (8) PCB P11
TO CONNECTOR (1) PCB P3
TO CONNECTOR (1) PCB P4
TO CONNECTOR (2) PCB P1
TO CONNECTOR (2) PCB P2
TO TONE CONTROL PCB W47
PROCESSOR
IN
OUT
AUX
TUNER
CD
PHONO
R
L
F
E
D
C
B
A
1
2
3
4
J101
J102
J103
J104
J105
J106
J107
J108
J109
P101
TP OFF-SET
OFF-SET ADJ
V model
-15V G +15V
TO EQUA

EQUALIZER PCB A2057A504B (J2)


S D
B
FET
PNP TRANSISTOR
NPN TRANSISTOR
E B C
D G S
2SC3383
2SA1392
2SK170
2SJ74
* Indicated are V model only

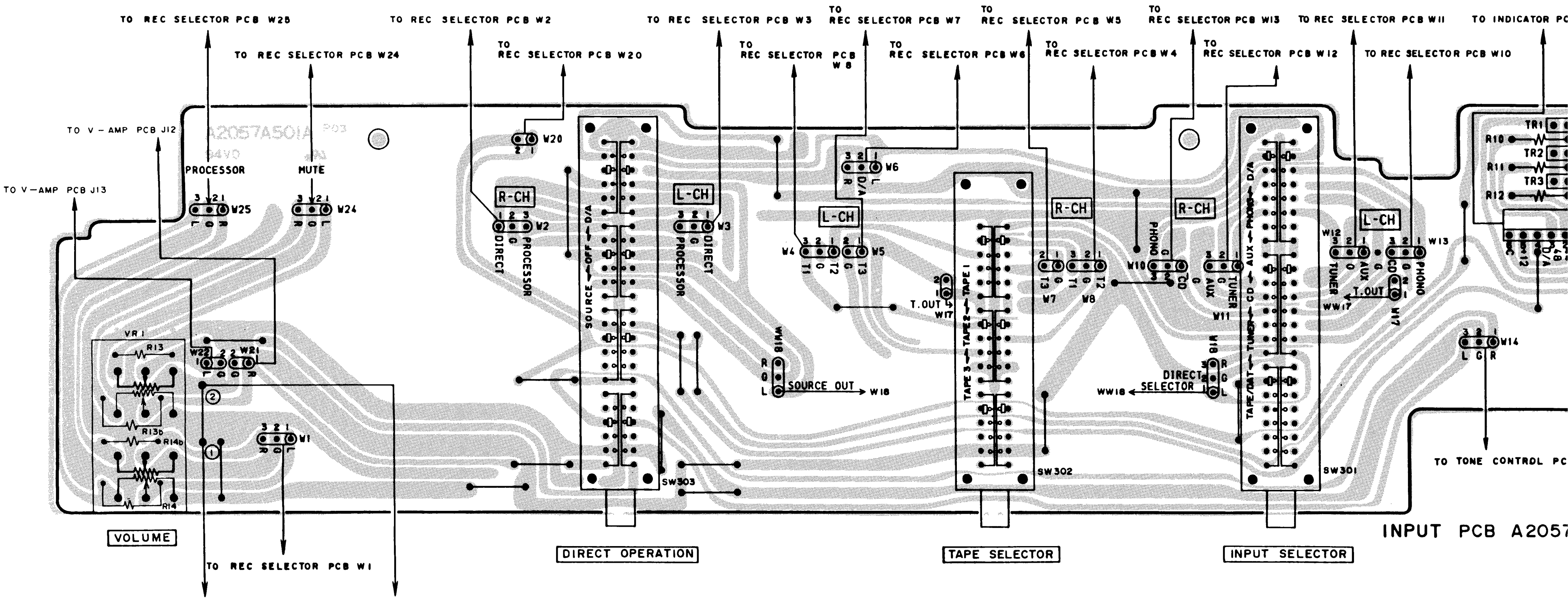
LOCATION OF COMPONENTS

TRANSISTOR

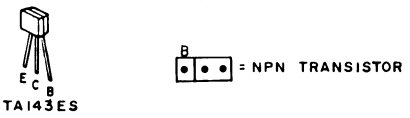
TR101 ···· E4
TR101b···· E3
TR102 ···· E4
TR102b···· E3
TR103 ···· D3
TR103b···· D2
TR104 ···· D3
TR104b···· D2
TR105 ···· C3
TR105b···· C2
TR106 ···· C3
TR106b···· C2

CONNECTOR

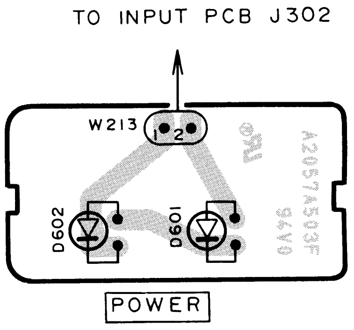
J101 ······ F3
J102 ······ F1
J103 ······ E1
J104 ······ E1
J105 ······ E1
J106 ······ D1
J107 ······ D1
J108 ······ D1
J109 ······ B1
P101 ······ C1


TO REC SELECTOR PCB W25
TO REC SELECTOR PCB W24
TO REC SELECTOR PCB W2
TO REC SELECTOR PCB W20
TO REC SELECTOR PCB W3
TO REC SELECTOR PCB W8
TO REC SELECTOR PCB W7
TO REC SELECTOR PCB W6
TO REC SELECTOR PCB W5
TO REC SELECTOR PCB W4
TO REC SELECTOR PCB W13
TO REC SELECTOR PCB W12
TO REC SELECTOR PCB W11
TO REC SELECTOR PCB W10
TO INDICATOR PC
TO V-AMP PCB J12
TO V-AMP PCB J13
PROCESSOR
MUTE
R-CH
L-CH
DIRECT
SOURCE OUT
T.OUT
DIRECT SELECTOR
VOLUME
DIRECT OPERATION
TAPE SELECTOR
INPUT SELECTOR
SW301
SW302
SW303
TO TONE CONTROL PC
TO REC SELECTOR PCB W1
TO DAC PCB W503
TO MAIN AMP ㉓ GND

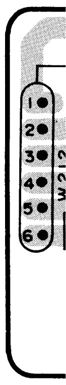
INPUT PCB A2057

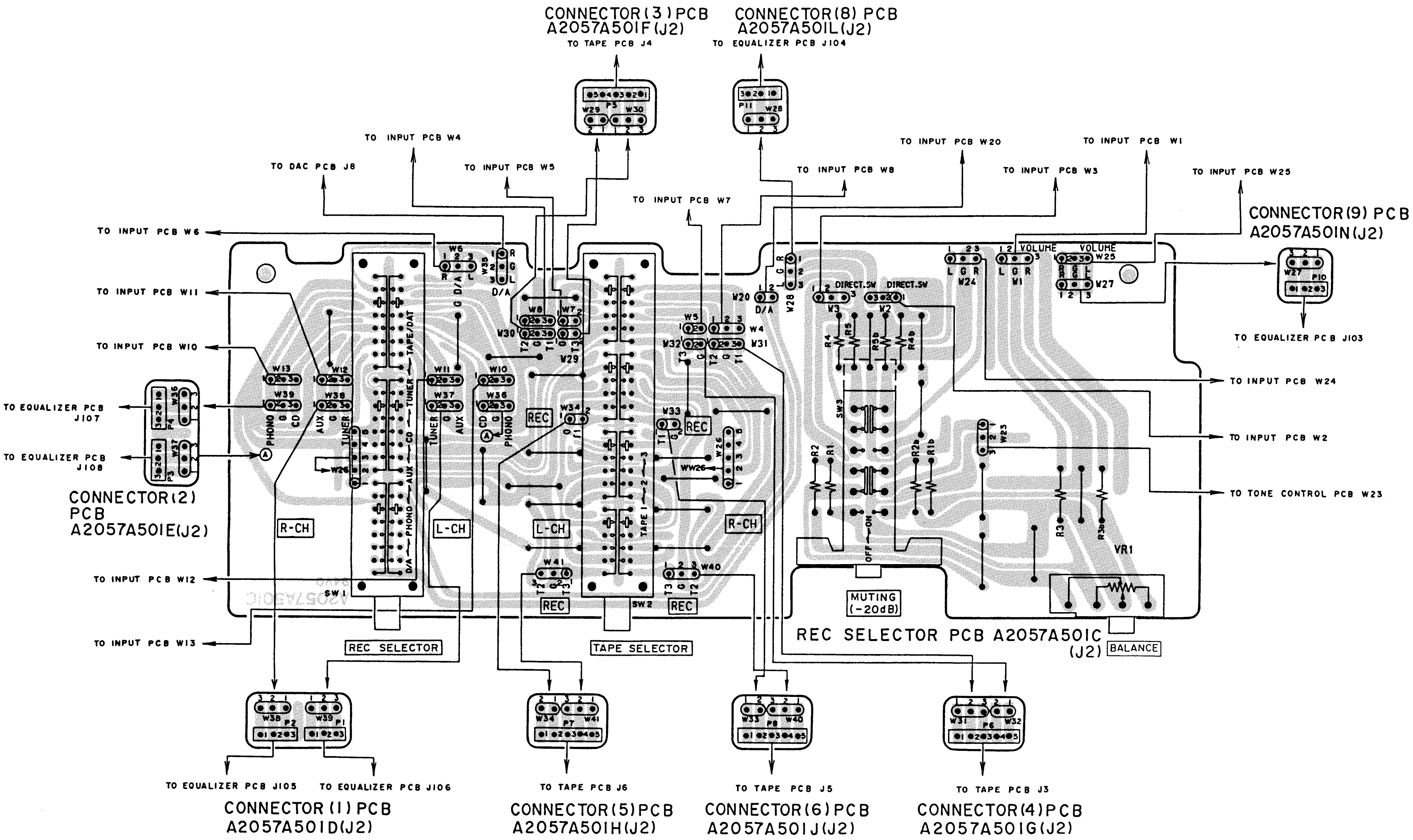

E C B
B
= NPN TRANSISTOR

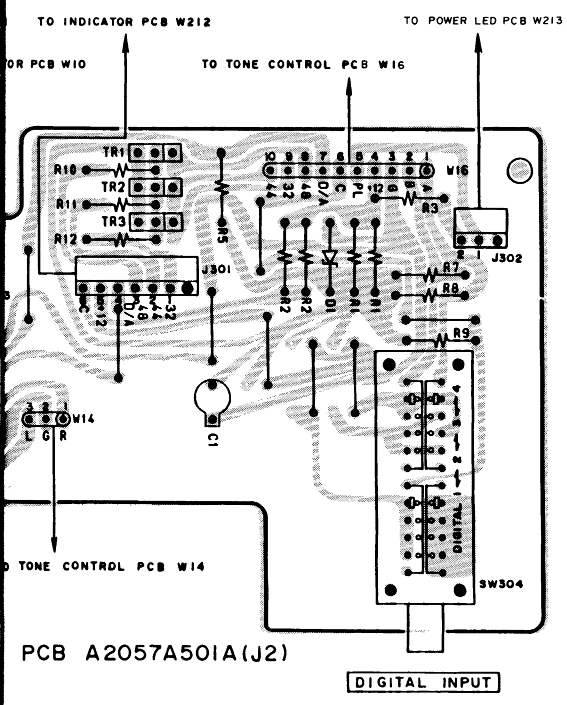
DTA143ES

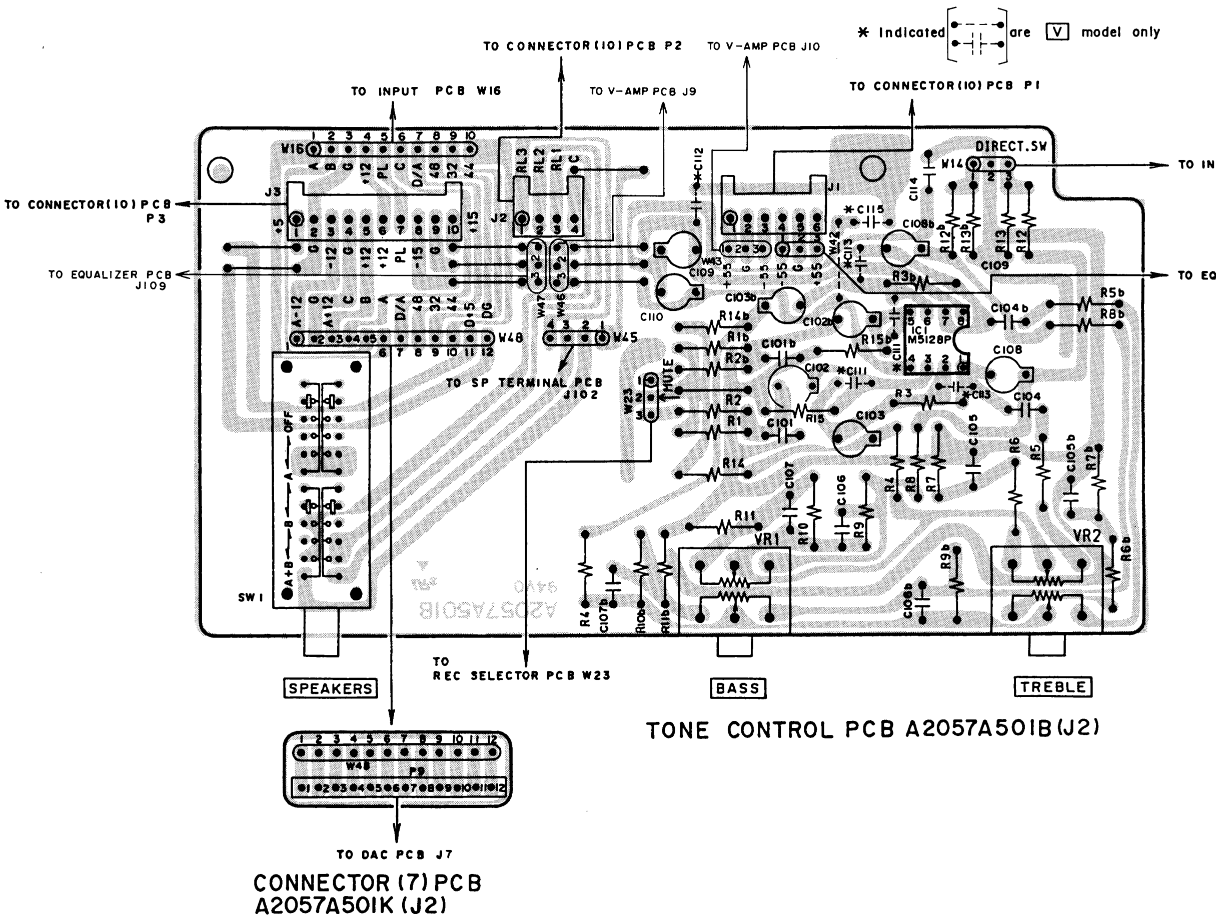

TO INPUT PCB J302
W213
D602
D601
A2057A503F
94V0
POWER

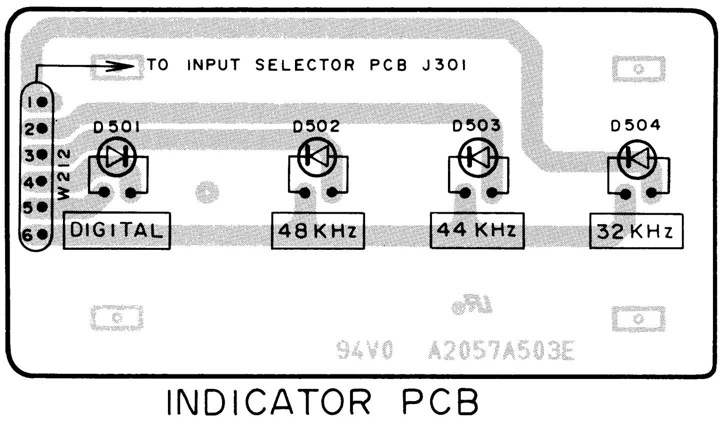
POWER LED PCB
A2057A503F (J1)



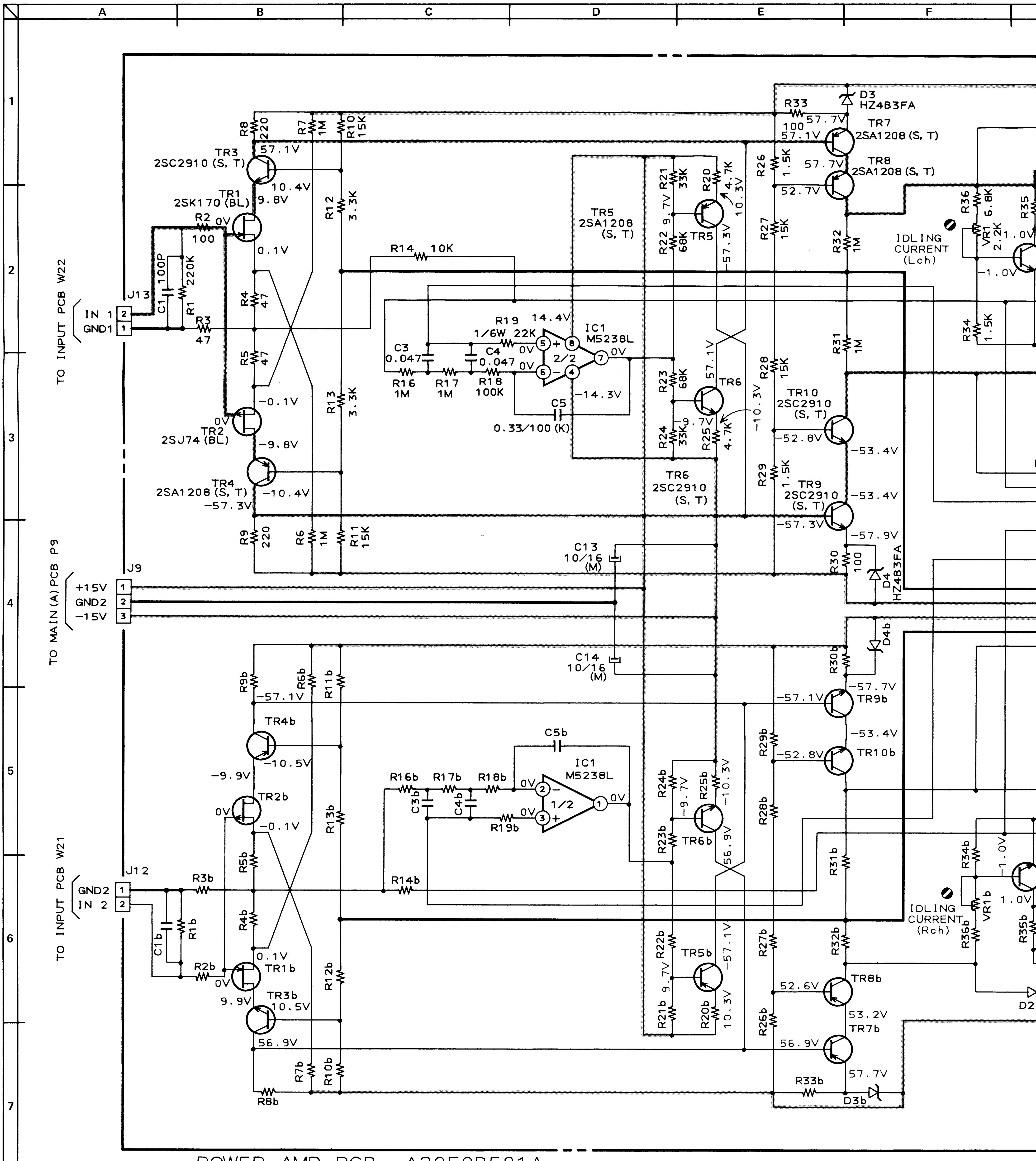

CONNECTOR (3) PCB
A2057A501F (J2)
TO TAPE PCB J4
CONNECTOR (8) PCB
A2057A501L (J2)
TO EQUALIZER PCB J104
TO INPUT PCB W4
TO DAC PCB J8
TO INPUT PCB W5
TO INPUT PCB W7
TO INPUT PCB W20
TO INPUT PCB W8
TO INPUT PCB W1
TO INPUT PCB W3
TO INPUT PCB W25
CONNECTOR (9) PCB
A2057A501N (J2)
TO INPUT PCB W6
TO INPUT PCB W11
TO INPUT PCB W10
TO EQUALIZER PCB J107
TO EQUALIZER PCB J108
CONNECTOR (2)
PCB
A2057A501E (J2)
TO EQUALIZER PCB J103
TO INPUT PCB W24
TO INPUT PCB W2
TO TONE CONTROL PCB W23
TO INPUT PCB W12
TO INPUT PCB W13
R-CH
L-CH
L-CH
R-CH
REC
REC
REC
REC
SW1
SW2
SW3
VR1
DIRECT.SW
VOLUME
MUTING
(-20dB)
REC SELECTOR
TAPE SELECTOR
REC SELECTOR PCB A2057A501C
(J2)
BALANCE
TO EQUALIZER PCB J105
TO EQUALIZER PCB J106
CONNECTOR (1) PCB
A2057A501D (J2)
TO TAPE PCB J6
CONNECTOR (5) PCB
A2057A501H (J2)
TO TAPE PCB J5
CONNECTOR (6) PCB
A2057A501J (J2)
TO TAPE PCB J3
CONNECTOR (4) PCB
A2057A501G (J2)


TO INDICATOR PCB W212
TO POWER LED PCB W213
OR PCB W10
TO TONE CONTROL PCB W16
TR1
TR2
TR3
W16
J301
J302
W14
L G R
IC1
SW304
DIGITAL
TO TONE CONTROL PCB W14
PCB A2057A501A (J2)
DIGITAL INPUT


* Indicated are V model only
TO CONNECTOR (10) PCB P2
TO V-AMP PCB J10
TO INPUT PCB W16
TO V-AMP PCB J9
TO CONNECTOR (10) PCB P1
DIRECT.SW
TO INPUT PCB W14
TO CONNECTOR (10) PCB P3
TO EQUALIZER PCB J109
TO EQUALIZER PCB J109
IC1
M5128P
TO SP TERMINAL PCB J102
SW1
VR1
VR2
TO REC SELECTOR PCB W23
SPEAKERS
BASS
TREBLE
TONE CONTROL PCB A2057A501B (J2)
W48
P9
TO DAC PCB J7
CONNECTOR (7) PCB
A2057A501K (J2)


TO INPUT SELECTOR PCB J301
W212
D501
D502
D503
D504
DIGITAL
48KHz
44 KHz
32KHz
94V0 A2057A503E

INDICATOR PCB
A2057A503E (J1)


A
B
C
D
E
F
1
2
3
4
5
6
7
8
TO INPUT PCB W22
IN 1
GND1
J13
C1 100P
R1 220K
R2 100
R3 47
TR1 2SK170 (BL)
TR2 2SJ74 (BL)
TR3 2SC2910 (S, T)
TR4 2SA1208 (S, T)
R8 220
R7 1M
R10 15K
R4 47
R5 47
R12 3.3K
R13 3.3K
R9 220
R6 1M
R11 15K
57.1V
10.4V
9.8V
0V
0.1V
-0.1V
-9.8V
-10.4V
-57.3V
R14 10K
R19 1/6W 22K
14.4V
IC1 M5238L
2/2
C3 0.047
C4 0.047
R16 1M
R17 1M
R18 100K
C5 0.33/100 (K)
-14.3V
TR5 2SA1208 (S, T)
TR6 2SC2910 (S, T)
R21 33K
R22 68K
R20 4.7K
R23 68K
R24 33K
R25 4.7K
9.7V
10.3V
-57.3V
57.1V
-9.7V
-10.3V
R33 100
D3 HZ4B3FA
TR7 2SA1208 (S, T)
TR8 2SA1208 (S, T)
57.7V
52.7V
R26 1.5K
R27 15K
R32 1M
R31 1M
R28 15K
R29 1.5K
TR10 2SC2910 (S, T)
TR9 2SC2910 (S, T)
-52.8V
-53.4V
-57.9V
R30 100
D4 HZ4B3FA
R36 6.8K
VR1 2.2K
R35
R34 1.5K
IDLING CURRENT (Lch)
1.0V
-1.0V
C13 10/16 (M)
C14 10/16 (M)
TO MAIN (A) PCB P9
J9
+15V
GND2
-15V
TO INPUT PCB W21
J12
GND2
IN 2
C1b
R1b
R2b
R3b
TR1b
TR2b
TR3b
TR4b
R4b
R5b
R6b
R7b
R8b
R9b
R10b
R11b
R12b
R13b
-57.1V
-10.5V
-9.9V
-0.1V
0.1V
9.9V
10.5V
56.9V
C5b
IC1 M5238L
1/2
R16b
R17b
R18b
R19b
C3b
C4b
R14b
R20b
R21b
R22b
R23b
R24b
R25b
TR5b
TR6b
R26b
R27b
R28b
R29b
R30b
R31b
R32b
R33b
R34b
R35b
R36b
VR1b
D2
D3b
D4b
TR7b
TR8b
TR9b
TR10b
-57.7V
-52.8V
-53.4V
52.6V
53.2V
57.7V
IDLING CURRENT (Rch)

POWER AMP PCB A2050B501A

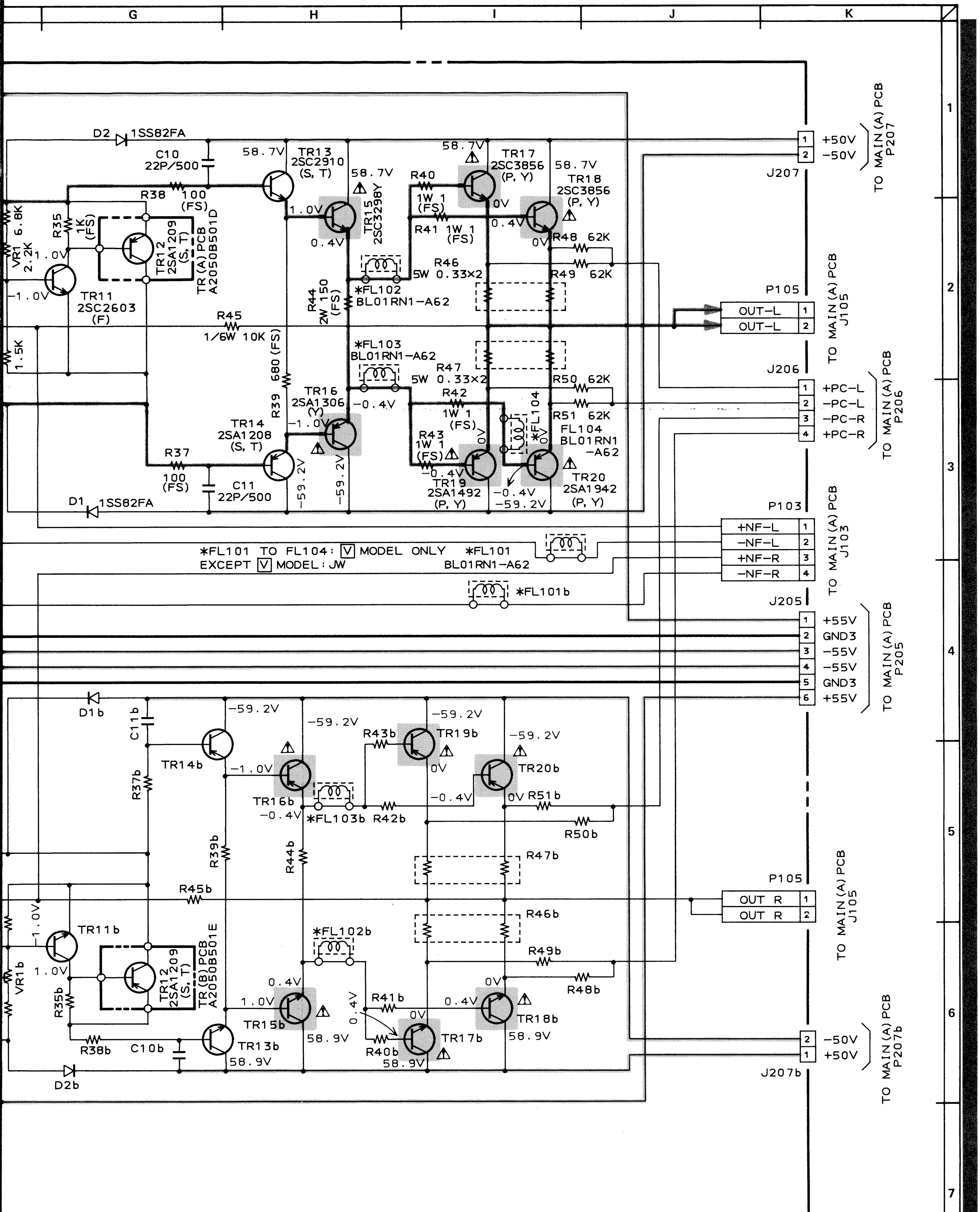
▬ B (POWER SUPPLY) LINE

▬ SIGNAL LINE
(INDICATED LEFT CHANNEL ONLY)

WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

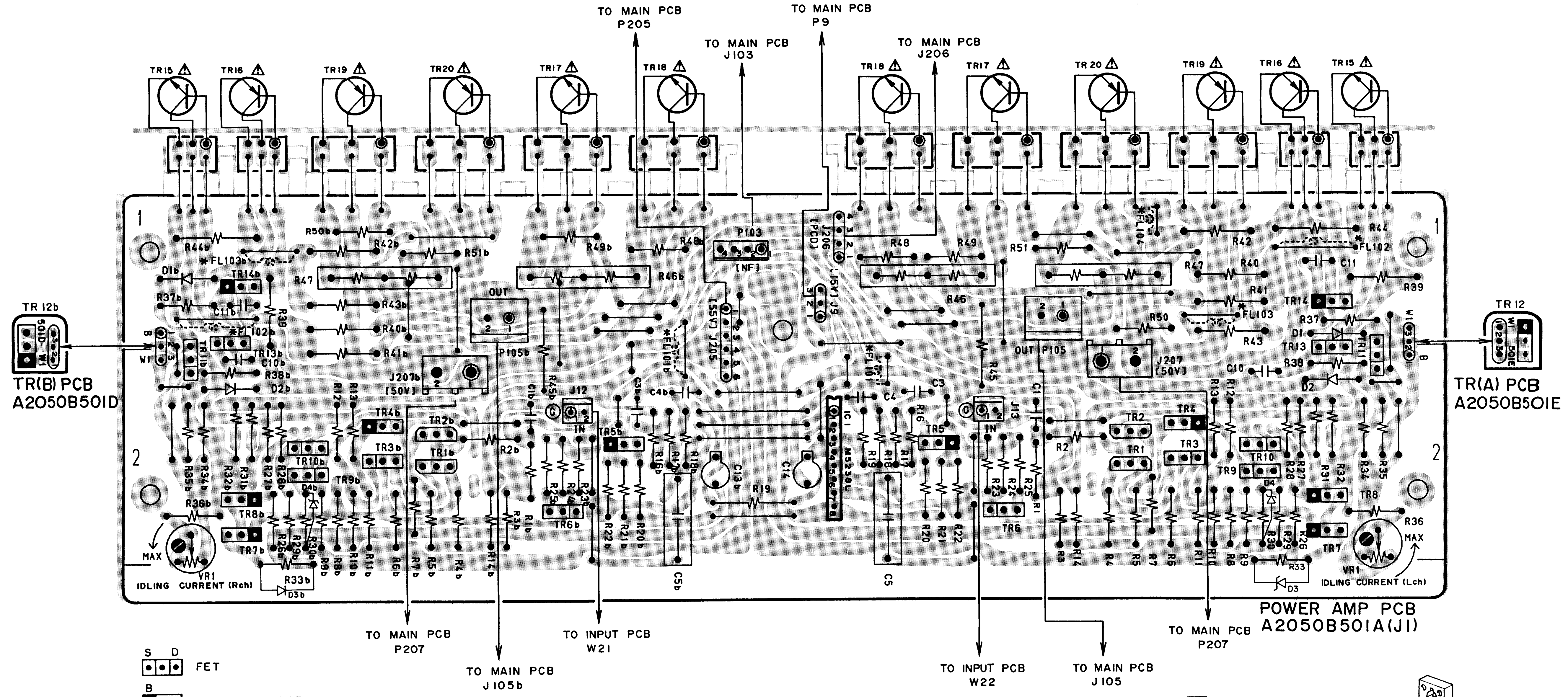
NOTE
UNLE
ALL
ALL


G
H
I
J
K
1
2
3
4
5
6
7
8
D2 1SS82FA
C10 22P/500
R38 100 (FS)
6.8K
R35 1K (FS)
VR1 2.2K
1.0V
-1.0V
TR11 2SC2603 (F)
TR12 2SA1209 (S, T)
TR (A) PCB A2050B501D
58.7V
TR13 2SC2910 (S, T)
1.0V
0.4V
TR15 2SC3298Y
58.7V
R40 1W 1 (FS)
R41 1W 1 (FS)
58.7V
TR17 2SC3856 (P, Y)
0V
0.4V
58.7V
TR18 2SC3856 (P, Y)
0V
R48 62K
R49 62K
R46 5W 0.33×2
R44 2W 150 (FS)
*FL102 BL01RN1-A62
R45 1/6W 10K (FS)
1.5K
*FL103 BL01RN1-A62
R47 5W 0.33×2
R39 680 (FS)
TR16 2SA1306 (Y)
-0.4V
-1.0V
TR14 2SA1208 (S, T)
R37 100 (FS)
C11 22P/500
D1 1SS82FA
-59.2V
-59.2V
R42 1W 1 (FS)
R43 1W 1 (FS)
0V
*FL104
0V
FL104 BL01RN1 -A62
R50 62K
R51 62K
-0.4V
TR19 2SA1492 (P, Y)
-0.4V
-59.2V
TR20 2SA1942 (P, Y)
J207
1 +50V
2 -50V
TO MAIN (A) PCB P207
P105
OUT-L 1
OUT-L 2
TO MAIN (A) PCB J105
J206
1 +PC-L
2 -PC-L
3 -PC-R
4 +PC-R
TO MAIN (A) PCB P206
P103
+NF-L 1
-NF-L 2
+NF-R 3
-NF-R 4
TO MAIN (A) PCB J103
*FL101 TO FL104: V MODEL ONLY
EXCEPT V MODEL: JW
*FL101 BL01RN1-A62
*FL101b
J205
1 +55V
2 GND3
3 -55V
4 -55V
5 GND3
6 +55V
TO MAIN (A) PCB P205
D1b
C11b
-59.2V
TR14b
R37b
-59.2V
-1.0V
TR16b
-0.4V
*FL103b
R42b
R43b
TR19b
-59.2V
0V
-0.4V
TR20b
-59.2V
0V
R51b
R50b
R39b
R44b
R47b
R46b
R45b
P105
OUT R 1
OUT R 2
TO MAIN (A) PCB J105
-1.0V
TR11b
1.0V
VR1b
R35b
TR12 2SA1209 (S, T)
TR (B) PCB A2050B501E
*FL102b
0.4V
1.0V
TR15b
58.9V
0.4V
R41b
0V
R40b
58.9V
TR17b
0V
0.4V
TR18b
58.9V
R49b
R48b
R38b
C10b
TR13b
58.9V
D2b
2 -50V
1 +50V
J207b
TO MAIN (A) PCB P207b

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF125WV (J)

*INDICATED VOLTAGES ARE MESURED
IN NO SIGNAL INPUT AND
VOLUME IS MINIMUM MODE.

AM-95
POWER AMP PCB
SCHEMATIC DIAGRAM
NO. 7-4 A206402M


TO MAIN PCB P205
TO MAIN PCB J103
TO MAIN PCB P9
TO MAIN PCB J206
TR15
TR16
TR19
TR20
TR17
TR18
TR 12b
TR(B) PCB
A2050B501D
TR 12
TR(A) PCB
A2050B501E
OUT
P105b
J207b [50V]
J12
IN
P103 [NF]
J206 [PCD]
[55V] J205
[15V] J9
IC1 M5238L
OUT P105
J207 [50V]
J13
IN
MAX
VR1
IDLING CURRENT (Rch)
VR1
IDLING CURRENT (Lch)
TO MAIN PCB P207
TO MAIN PCB J105b
TO INPUT PCB W21
TO INPUT PCB W22
TO MAIN PCB J105
TO MAIN PCB P207
POWER AMP PCB
A2050B501A(J1)

S D
●|●|● FET

B
■●● PNP TRANSISTOR

B
●|●● NPN TRANSISTOR

✱ Indicated ⌇ are [V] model only

WARNING. △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

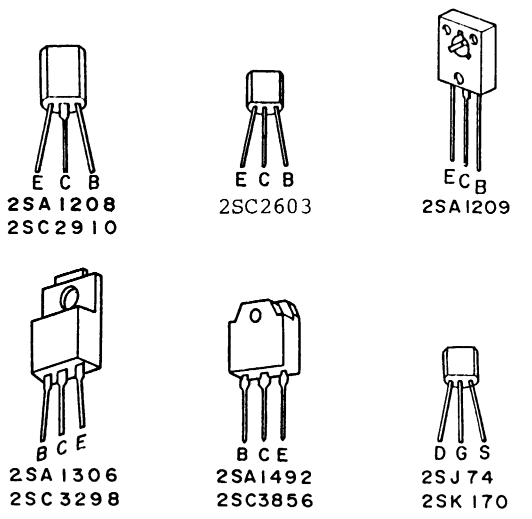
AVERTISSEMENT: △IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL.
NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

LOCATION OF COMPONENTS

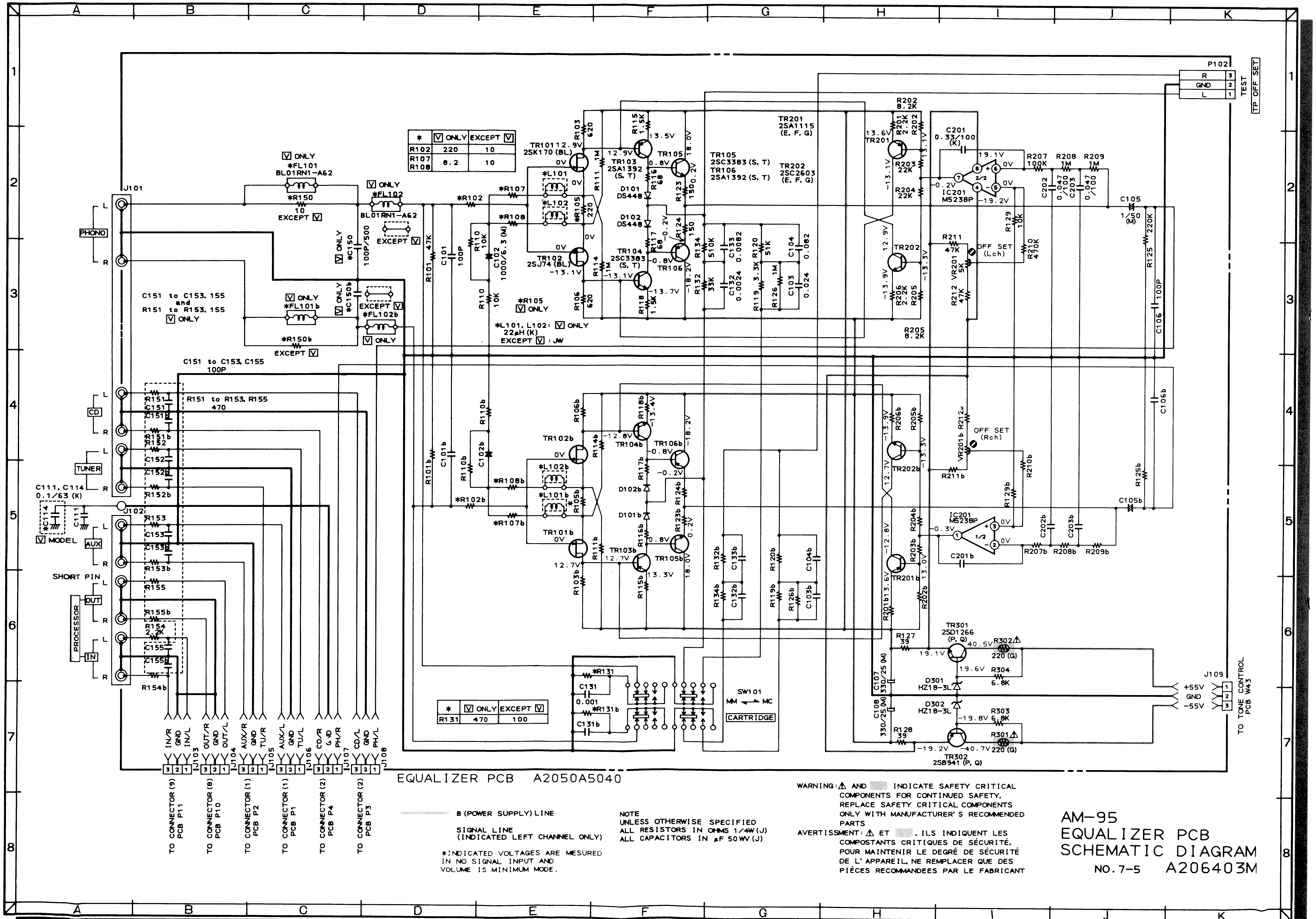
IC
IC 1 ········ C2

CONNECTOR
J12b ········ E2
J13 ········ C2
J207 ········ B2
J207b ········ E2
P103 ········ D1
P105 ········ B1
P105b ········ E1

TRANSISTOR
TR1 ········ B2
TR1b ········ E2
TR2 ········ B2
TR2b ········ E2
TR3 ········ B2
TR3b ········ E2
TR4 ········ B2
TR4b ········ E2
TR5 ········ C2
TR5b ········ D2
TR6 ········ C2
TR6b ········ E2
TR7 ········ A2
TR7b ········ F2
TR8 ········ A2
TR8b ········ F2
TR9 ········ A2
TR9b ········ F2
TR10 ········ A2
TR10b ········ F2
TR11 ········ A2
TR11b ········ F2
TR13 ········ A2
TR13b ········ F1
TR14 ········ A1
TR14b ········ F1
TR15 ········ A1
TR15b ········ F1
TR16 ········ A1
TR16b ········ F1
TR17 ········ C1
TR17b ········ D1
TR18 ········ C1
TR18b ········ D1
TR19 ········ B1
TR19b ········ E2
TR20 ········ B1
TR20b ········ E2


E C B
2SA1208
2SC2910
E C B
2SC2603
E C B
2SA1209
B C E
2SA1306
2SC3298
B C E
2SA1492
2SC3856
D G S
2SJ74
2SK170

MC-Service


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
J101
PHONO
L
R
CD
TUNER
AUX
OUT
IN
PROCESSOR
SHORT PIN
J102
C111, C114
0.1/63 (K)
*C114
C111
V MODEL
V ONLY
*FL101
BL01RN1-A62
*R150
10
EXCEPT V
*FL102
BL01RN1-A62
*C150
100P/500
*FL101b
*FL102b
*C150b
*R150b
C151 to C153, 155
and
R151 to R153, 155
V ONLY
C151 to C153, C155
100P
R151 to R153, R155
470
R151
C151
C151b
R151b
R152
C152
C152b
R152b
R153
C153
C153b
R153b
R155
R155b
R154
2.2K
C155
C155b
R154b
IN/R GND IN/L
OUT/R GND OUT/L
AUX/R GND TU/R
AUX/L GND TU/L
CD/R GND PH/R
CD/L GND PH/L
J103
J104
J105
J106
J107
J108
TO CONNECTOR (9) PCB P11
TO CONNECTOR (8) PCB P10
TO CONNECTOR (1) PCB P2
TO CONNECTOR (1) PCB P1
TO CONNECTOR (2) PCB P4
TO CONNECTOR (2) PCB P3
EQUALIZER PCB A2050A5040
*R102
*R107
*R108
*R105
V ONLY
*L101
*L102
*L101, L102: V ONLY
22µH (K)
EXCEPT V : JW
R101 47K
C101 100P
R110 10K
C102 1000/6.3 (M)
R103 620
R106 620
R111 1M
R114 1M
R105 220
TR101 2SK170 (BL)
TR102 2SJ74 (BL)
TR103 2SA1392 (S, T)
TR104 2SC3383 (S, T)
TR105
TR106
D101 DS448
D102 DS448
R115 1.5K
R116 68
R117 68
R118 1.5K
R123 150
R124 150
R132 33K
R134 510K
C132 0.0024
C133 0.0082
R119 3.3K
R120 51K
R126 1M
C103 0.024
C104 0.082
TR105 2SC3383 (S, T)
TR106 2SA1392 (S, T)
TR201 2SA1115 (E, F, G)
TR202 2SC2603 (E, F, G)
R201 2.2K
R202 8.2K
R203 22K
R204 22K
R205 8.2K
R206 2.2K
C201 0.33/100 (K)
IC201 M5238P
R207 100K
R208 1M
R209 1M
C202 0.047/100
C203 0.047/100
R129 10K
R210 470K
R211 47K
VR201 5K
R212 47K
OFF SET (Lch)
OFF SET (Rch)
C105 1/50 (M)
R125 220K
C106 100P
P102
R
GND
L
TEST
TP OFF SET
R101b
C101b
R110b
C102b
*R102b
*R107b
*R108b
*L101b
*L102b
*R105b
R103b
R106b
R111b
R114b
TR101b
TR102b
TR103b
TR104b
TR105b
TR106b
D101b
D102b
R115b
R116b
R117b
R118b
R123b
R124b
R132b
C133b
R134b
C132b
R120b
C104b
R119b
R126b
C103b
TR201b
TR202b
R201b
R202b
R203b
R204b
R205b
R206b
C201b
R207b
R208b
R209b
C202b
C203b
R129b
R210b
R211b
VR201b
R212b
C105b
R125b
C106b
*R131
C131
0.001
*R131b
C131b
SW101
MM ⟷ MC
CARTRIDGE
R127 39
R128 39
C107 330/25 (M)
C108 330/25 (M)
TR301 2SD1266 (P, Q)
TR302 2SB941 (P, Q)
R302 ⚠ 220 (G)
R301 ⚠ 220 (G)
R304 6.8K
R303 6.8K
D301 HZ18-3L
D302 HZ18-3L
J109
+55V
GND
-55V
TO TONE CONTROL PCB W43
12.9V
0V
-13.1V
13.5V
18.0V
-18.2V
0.8V
-0.8V
-0.2V
13.7V
-13.7V
13.6V
-13.1V
12.9V
-13.9V
-13.3V
19.1V
-19.2V
-0.2V
-0.3V
40.5V
-40.7V
19.6V
-19.8V

*	V ONLY	EXCEPT V
R102	220	10
R107 R108	8.2	10

*	V ONLY	EXCEPT V
R131	470	100

B (POWER SUPPLY) LINE

SIGNAL LINE
(INDICATED LEFT CHANNEL ONLY)

*INDICATED VOLTAGES ARE MESURED
IN NO SIGNAL INPUT AND
VOLUME IS MINIMUM MODE.

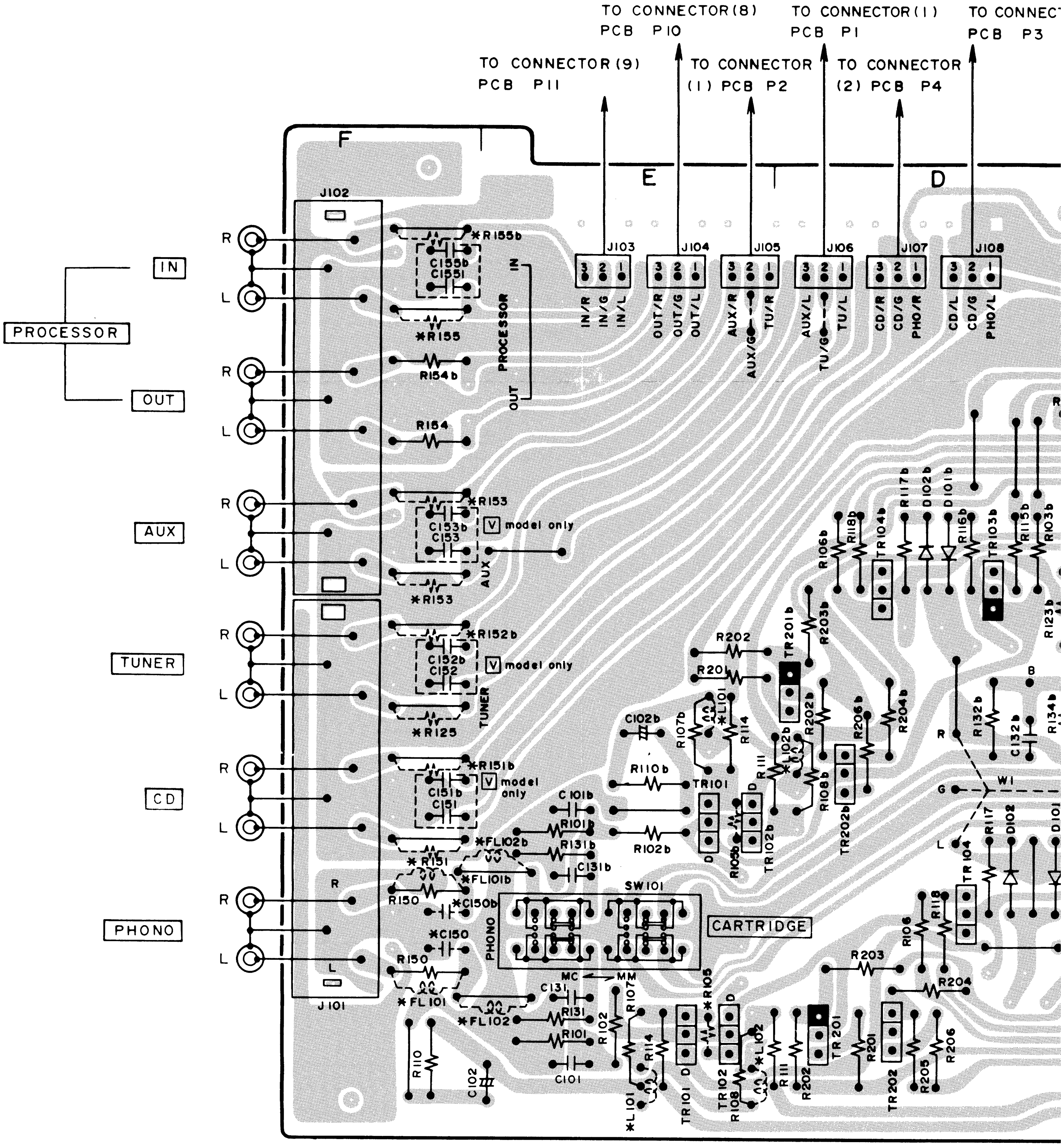
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN µF 50WV (J)

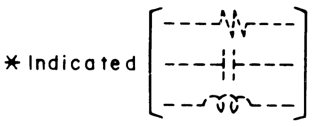
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AM-95
EQUALIZER PCB
SCHEMATIC DIAGRAM

NO. 7-5 A206403M


TO CONNECTOR (8) PCB P10
TO CONNECTOR (1) PCB P1
TO CONNEC PCB P3
TO CONNECTOR (9) PCB P11
TO CONNECTOR (1) PCB P2
TO CONNECTOR (2) PCB P4
F
E
D
J102
J101
J103
J104
J105
J106
J107
J108
IN/R IN/G IN/L
OUT/R OUT/G OUT/L
AUX/R AUX/G TU/R
AUX/L TU/G TU/L
CD/R CD/G PHO/R
CD/L CD/G PHO/L
IN
OUT
PROCESSOR
AUX
TUNER
CD
PHONO
R
L
*R155b
C155b
C155l
*R155
R154b
R154
*R153
C153b
C153
V model only
*R153
*R152b
C152b
C152
V model only
*R125
*R151b
C151b
C151
V model only
*R151
*FL102b
*FL101b
R150
*C150b
*C150
R150
*FL101
*FL102
C101b
R101b
R131b
C131b
C131
R131
R101
C101
R102
R110
C102
SW101
CARTRIDGE
MC
MM
R107
*R105
R114
*L101
TR101
D
TR102
R108
*L102
R111
R202
TR201
R201
TR202
R205
R206
R203
R204
R106
R118
TR104
R117
D102
D101
W1
G
B
R132b
C132b
R134b
R202
R201
TR201b
R203b
R202b
R206b
R204b
TR202b
R108b
*L102b
R111
R114
*L101
R107b
C102b
R110b
TR101
R102b
R105b
TR102b
R106b
R118b
TR104b
R117b
D102b
D101b
R116b
TR103b
R115b
R103b
R123b



*Indicated are V model only

LOCATION OF COMPONENTS

IC

IC201 ········C2

CONNECTOR

J101 ········

J102 ········

J103 ········

J104 ········

J105 ········

J106 ········

J107 ········

J108 ········

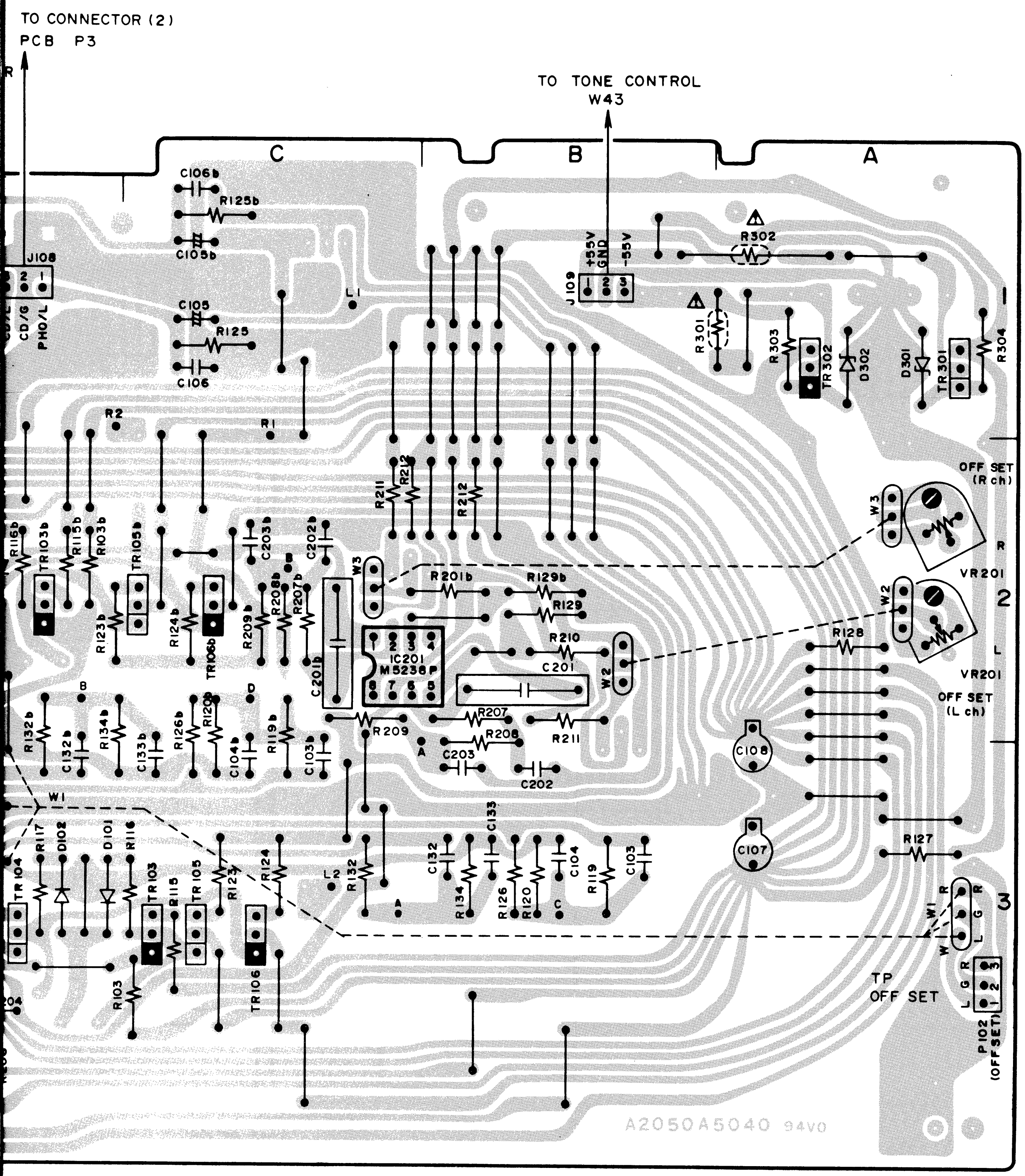
J109 ········

P101 ········

P102 ········

WARNING △INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: △IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL. NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

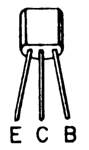

TO CONNECTOR (2)
PCB P3
TO TONE CONTROL
W43
C
B
A
C106b
R125b
C105b
J108
CD/G
PHO/L
C105
R125
C106
L1
J109
+55V
GND
-55V
R302
R301
R303
TR302
D302
D301
TR301
R304
1
R2
R1
R211
R212
R212
OFF SET
(R ch)
W3
R
VR201
W2
2
L
VR201
OFF SET
(L ch)
R116b
TR103b
R115b
R103b
TR105b
C203b
C202b
R208b
R207b
W3
R201b
R129b
R129
R123b
R124b
TR106b
R209b
C201b
IC201
M5236P
R210
C201
W2
R128
B
D
R207
R209
R206
R211
C108
R132b
C132b
R134b
C133b
R126b
R120b
C104b
R119b
C103b
A
C203
C202
W1
R117
D102
D101
R116
C133
C132
C104
C103
C107
R127
TR104
TR103
R115
TR105
R123
R124
L2
R132
R134
R126
R120
C
R119
A
3
W1
R
G
L
TP
OFF SET
P102
(OFF SET)
R103
TR106
A2050A5040 94V0

EQUALIZER PCB A2050A5040

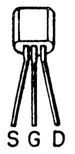
ONENTS

CONNECTOR	
J101	F3
J102	F1
J103	E1
J104	E1
J105	E1
J106	D1
J107	D1
J108	D1
J109	B1
P101	C1
P102	A3

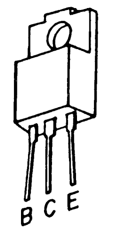
TRANSISTOR	
TR 101	E3
TR 101b	E3
TR 102	E3
TR 102b	E3
TR 103	C3
TR 103b	D2
TR 104	D3
TR 104b	D2
TR 105	C3
TR 105b	C2
TR 106	C3
TR 106b	C2
TR201	D3
TR201b	D2
TR202	D3
TR202b	D3
TR301	A1
TR302	A1



2SA115
2SA1392
2SC2603
2SC3383



2SK170
2SJ74

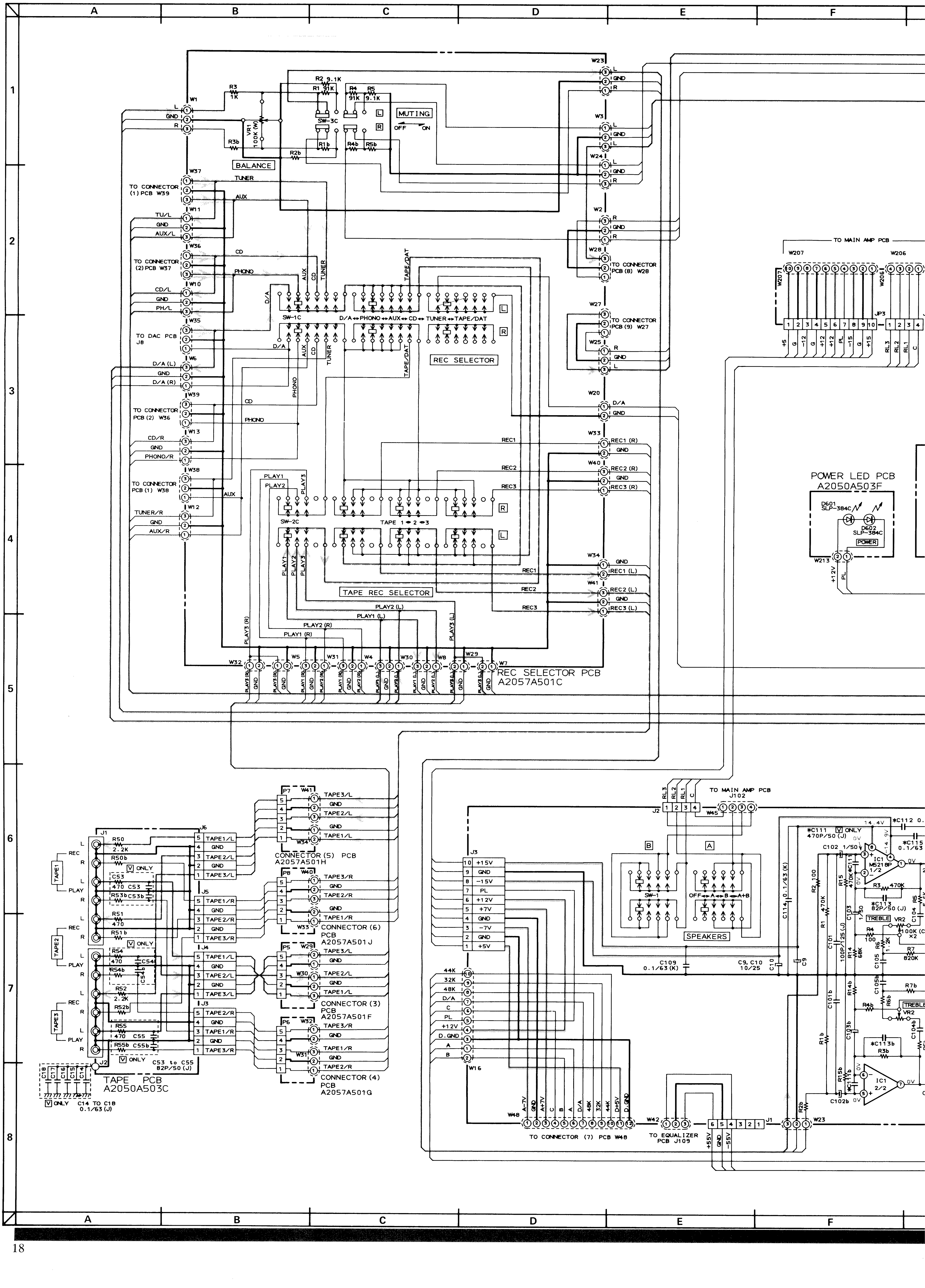


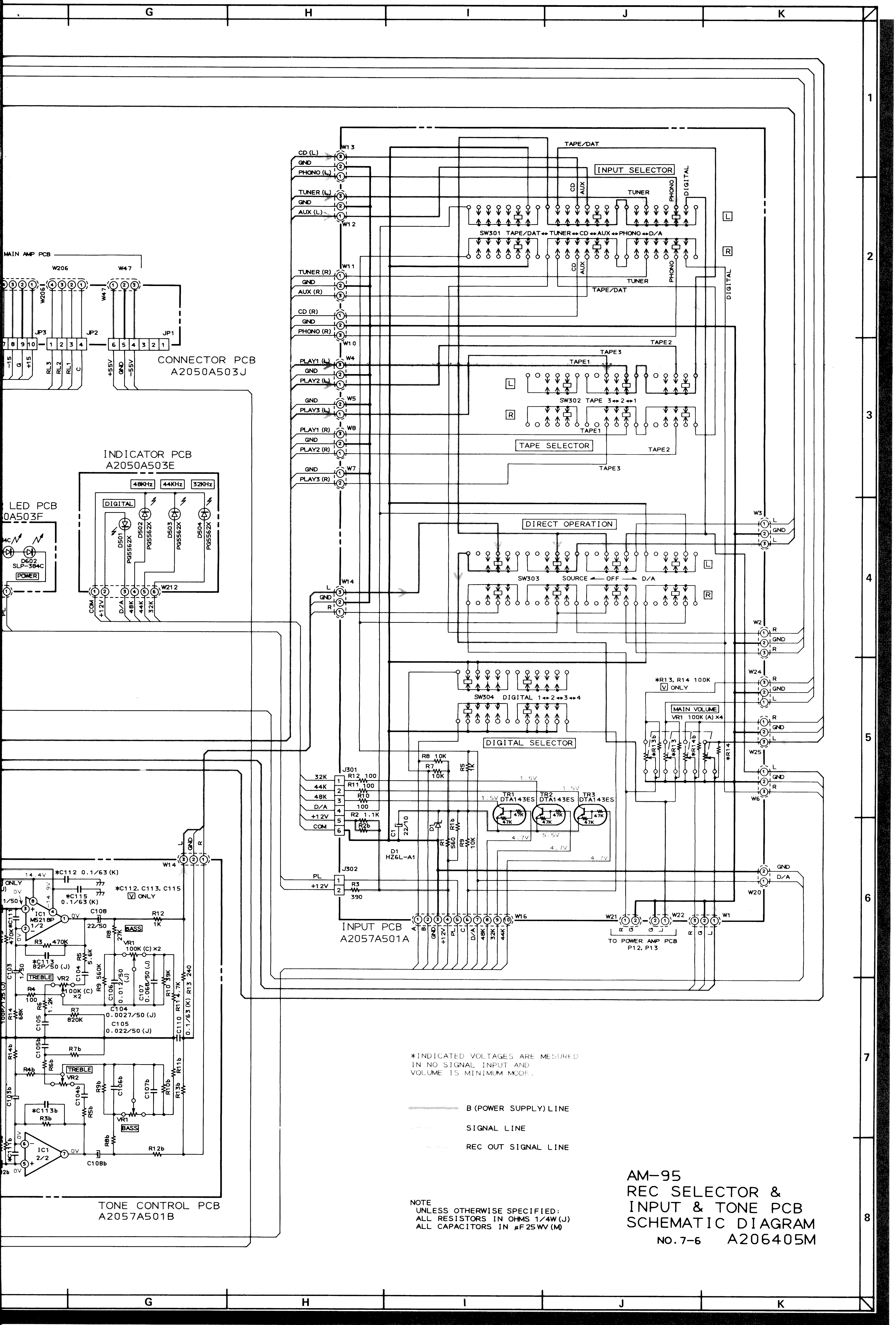
2SD941
2SD1266

B
• • • = NPN TRANSISTOR

B
■ • • = PNP TRANSISTOR

• • • = FET
S G D


A
B
C
D
E
F
1
2
3
4
5
6
7
8
W1
L
GND
R
R3
1K
R3b
VR1
100K (W)
R2 9.1K
R1 91K
R4
91K
R5
9.1K
SW-3C
R1b
R4b
R5b
R2b
MUTING
OFF
ON
BALANCE
W23
W3
W24
W2
W28
TO CONNECTOR PCB (8) W28
W27
TO CONNECTOR PCB (9) W27
W25
W20
D/A
W33
REC1 (R)
W40
REC2 (R)
REC3 (R)
W34
REC1 (L)
W41
REC2 (L)
REC3 (L)
W37
TO CONNECTOR (1) PCB W39
TUNER
AUX
W11
TU/L
AUX/L
W36
TO CONNECTOR (2) PCB W37
CD
PHONO
W10
CD/L
PH/L
W35
TO DAC PCB J8
W6
D/A (L)
D/A (R)
W39
TO CONNECTOR PCB (2) W36
W13
CD/R
PHONO/R
W38
TO CONNECTOR PCB (1) W38
W12
TUNER/R
AUX/R
SW-1C
D/A ↔ PHONO ↔ AUX ↔ CD ↔ TUNER ↔ TAPE/DAT
TAPE/DAT
REC SELECTOR
PLAY1
PLAY2
PLAY3
SW-2C
TAPE 1 ↔ 2 ↔ 3
TAPE REC SELECTOR
REC1
REC2
REC3
PLAY2 (L)
PLAY1 (L)
PLAY2 (R)
PLAY1 (R)
PLAY3 (R)
PLAY3 (L)
W32
W5
W31
W4
W30
W8
W29
W7
REC SELECTOR PCB
A2057A501C
TO MAIN AMP PCB
W207
W206
JP3
+5
G
−12
+12
PL
−15
+15
RL3
RL2
RL1
C
POWER LED PCB
A2050A503F
D601
SLP-384C
D602
SLP-384C
POWER
W213
+12V
J1
J2
J3
J4
J5
J6
R50
2.2K
R50b
V ONLY
C53
470
C53b
R53b
R51
470
R51b
R54
C54
R54b
C54b
R52
2.2K
R52b
R55
470
C55
R55b
C55b
C53 to C55
82P/50 (J)
TAPE1
TAPE2
TAPE3
REC
PLAY
TAPE1/L
TAPE2/L
TAPE3/L
TAPE1/R
TAPE2/R
TAPE3/R
C18
C17
C16
C15
C14
V ONLY C14 TO C18
0.1/63 (J)
TAPE PCB
A2050A503C
P7
W41
W34
CONNECTOR (5) PCB
A2057A501H
P8
W40
W33
CONNECTOR (6) PCB
A2057A501J
P5
W29
W30
CONNECTOR (3) PCB
A2057A501F
P6
W32
W31
CONNECTOR (4) PCB
A2057A501G
TO MAIN AMP PCB
J102
W45
+15V
−15V
+7V
−7V
+5V
44K
32K
48K
D.GND
A
B
W16
B
A
SW-1
OFF ↔ A ↔ B ↔ A+B
SPEAKERS
C114, 0.1/63 (K)
C109
0.1/63 (K)
C9, C10
10/25
C10
C9
W48
A−7V
A+7V
D+5V
D GND
TO CONNECTOR (7) PCB W48
W42
TO EQUALIZER PCB J109
+55V
−55V
14.4V
*C112
*C111
V ONLY
470P/50 (J)
0V
C102 1/50
IC1
M5218P
1/2
*C115
0.1/63
R2 100
R15
470K
R3 470K
R1
470K
C103
*C113
82P/50 (J)
C104
TREBLE
VR2
100K (C)
×2
R4
R6
C101
100P/25 (J)
R14
68K
C105
R7
820K
R5
C105b
R7b
R14b
C101b
R4b
100
R6b
1.2K
C104b
R1b
C103b
*C113b
R3b
R15b
*C111b
IC1
2/2
C102b
R2b

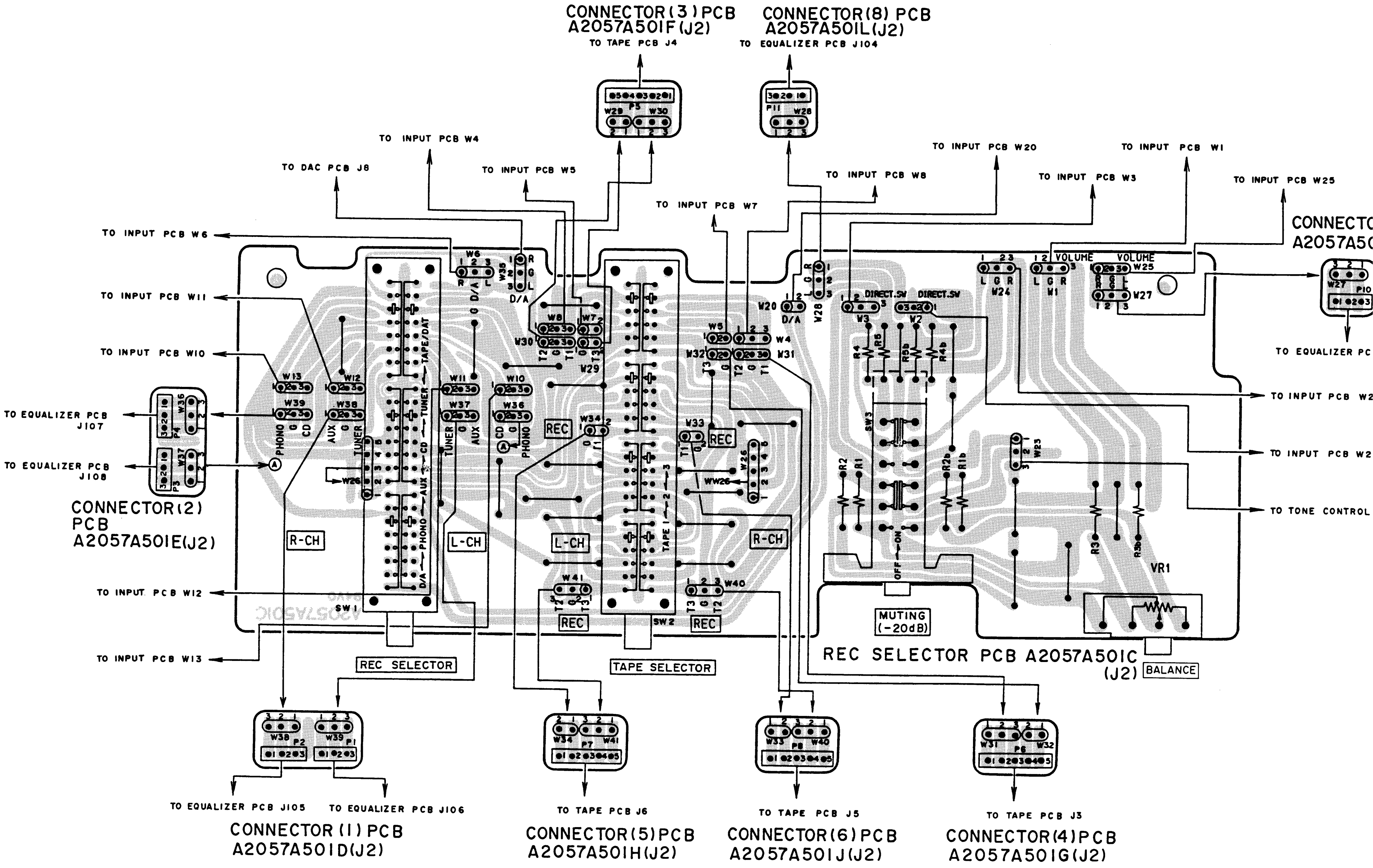

G
H
I
J
K
1
2
3
4
5
6
7
8
MAIN AMP PCB
W206
W47
JP3
JP2
JP1
CONNECTOR PCB
A2050A503J
-15
G
+15
RL3
RL2
RL1
C
+55V
GND
-55V
INDICATOR PCB
A2050A503E
48KHz
44KHz
32KHz
DIGITAL
D501
D502 PG5562X
D503 PG5562X
D504 PG5562X
LED PCB
0A503F
D602
SLP-384C
POWER
W212
COM
+12V
D/A
48K
44K
32K
PL
CD (L)
GND
PHONO (L)
TUNER (L)
GND
AUX (L)
W13
W12
TUNER (R)
GND
AUX (R)
W11
CD (R)
GND
PHONO (R)
W10
PLAY1 (L)
GND
PLAY2 (L)
W4
GND
PLAY3 (L)
W5
PLAY1 (R)
GND
PLAY2 (R)
W8
GND
PLAY3 (R)
W7
TAPE/DAT
INPUT SELECTOR
CD
AUX
TUNER
PHONO
DIGITAL
SW301 TAPE/DAT↔TUNER↔CD↔AUX↔PHONO↔D/A
L
R
TAPE2
TAPE3
TAPE1
SW302 TAPE 3↔2↔1
TAPE SELECTOR
DIRECT OPERATION
SW303 SOURCE ← OFF → D/A
W14
W3
W2
W24
W25
W6
W20
W1
W22
W21
L
GND
R
SW304 DIGITAL 1↔2↔3↔4
DIGITAL SELECTOR
*R13, R14 100K
V ONLY
MAIN VOLUME
VR1 100K (A) ×4
*R13b
*R13
*R14b
*R14
J301
32K
44K
48K
D/A
+12V
COM
R12 100
R11 100
R10 100
R2 1.1K
R2b
R8 10K
R7 10K
R5
C1 22/10
D1 HZ6L-A1
R1b
R1 560
R9 10K
TR1 DTA143ES
TR2 DTA143ES
TR3 DTA143ES
47K
1.5V
5.5V
4.7V
J302
PL
+12V
R3 390
INPUT PCB
A2057A501A
W16
TO POWER AMP PCB
P12, P13
D/A
*C112 0.1/63 (K)
14.4V
*C112, C113, C115
V ONLY
*C115 0.1/63 (K)
IC1 M5218P 1/2
C108 22/50
R12 1K
BASS
R8 27K
VR1 100K (C) ×2
R3 470K
*C113 82P/50 (J)
TREBLE
VR2 100K (C) ×2
R4 100
R6 1.2K
R5 5.6K
C104
R9 560K
C106 0.012/50 (J)
C107 0.068/50 (J)
R10 39K
R11 4.7K
R13 240
R7 820K
C104 0.0027/50 (J)
C105 0.022/50 (J)
C110 0.1/63 (K)
R14 68K
R14b
C105b
R7b
R4b
R6b
VR2
C104b
R5b
R9b
C106b
C107b
R10b
R11b
R13b
*C113b
R3b
IC1 2/2
R8b
VR1
R12b
C108b
0V
TONE CONTROL PCB
A2057A501B

*INDICATED VOLTAGES ARE MESURED IN NO SIGNAL INPUT AND VOLUME IS MINIMUM MODE.

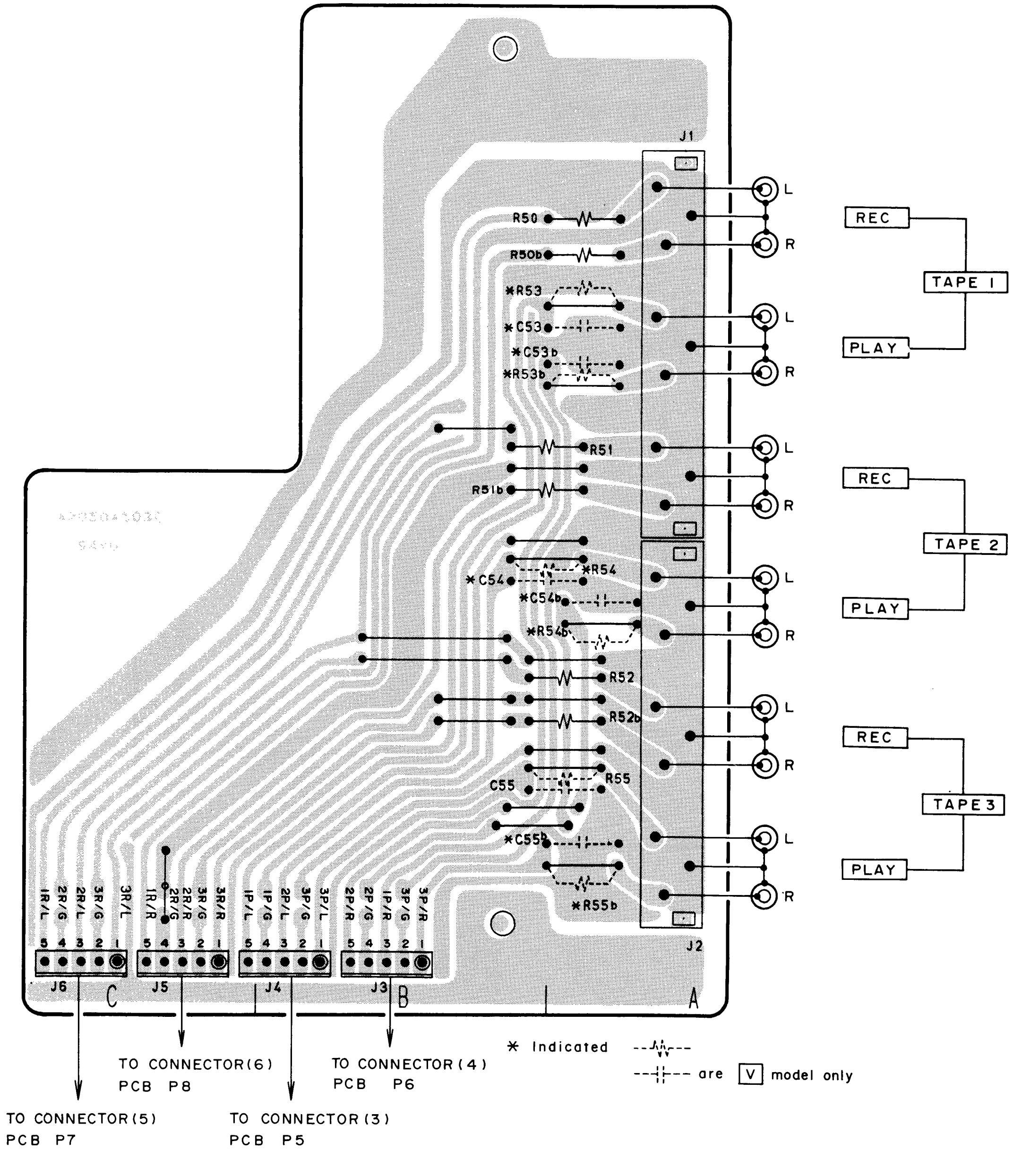
B (POWER SUPPLY) LINE
SIGNAL LINE
REC OUT SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 25WV (M)

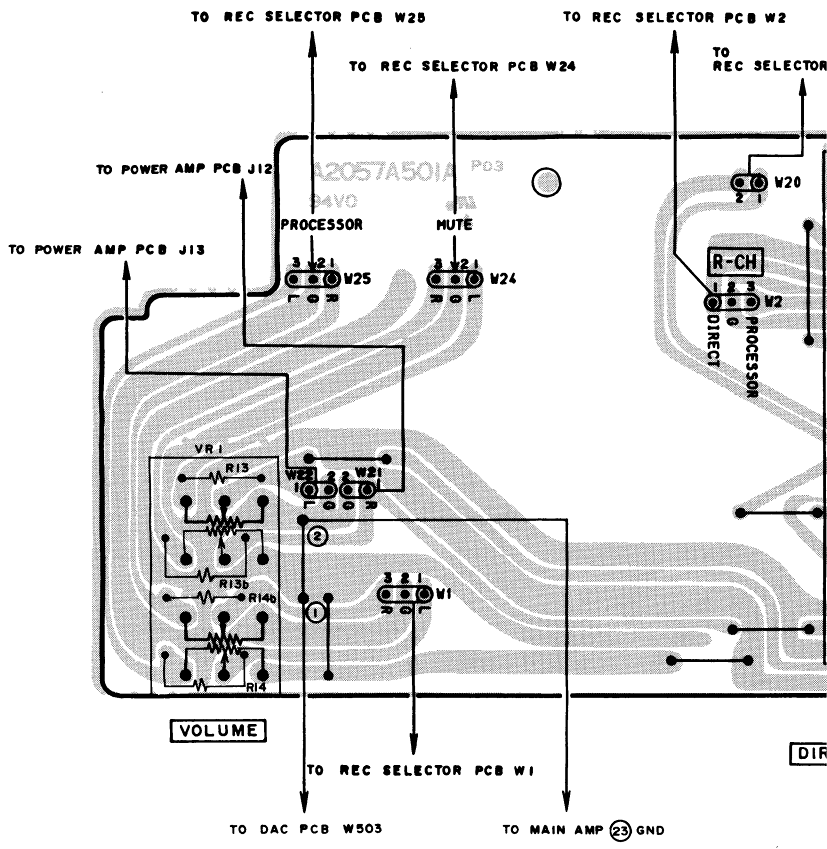
AM-95
REC SELECTOR &
INPUT & TONE PCB
SCHEMATIC DIAGRAM
NO. 7-6 A206405M

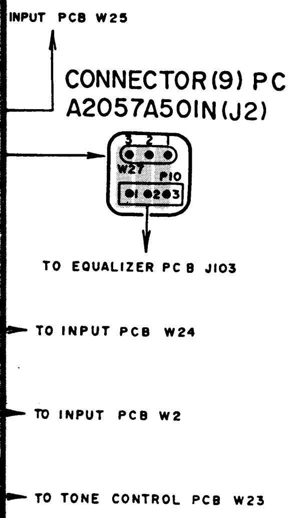

CONNECTOR(3)PCB
A2057A501F(J2)
TO TAPE PCB J4
CONNECTOR(8) PCB
A2057A501L(J2)
TO EQUALIZER PCB J104
TO INPUT PCB W4
TO DAC PCB J8
TO INPUT PCB W5
TO INPUT PCB W7
TO INPUT PCB W8
TO INPUT PCB W20
TO INPUT PCB W3
TO INPUT PCB W1
TO INPUT PCB W25
CONNECTO
A2057A50
TO INPUT PCB W6
TO INPUT PCB W11
TO INPUT PCB W10
TO EQUALIZER PCB J107
TO EQUALIZER PCB J108
CONNECTOR(2)
PCB
A2057A501E(J2)
TO INPUT PCB W12
TO INPUT PCB W13
TO EQUALIZER PC
TO INPUT PCB W2
TO INPUT PCB W2
TO TONE CONTROL
R-CH
L-CH
L-CH
R-CH
REC
REC
REC
REC
PHONO
CD
AUX
TUNER
TAPE/DAT
D/A
TAPE 1
TAPE 2
SW1
SW2
SW3
DIRECT.SW
DIRECT.SW
VOLUME
VOLUME
VR1
OFF
ON
MUTING
(-20dB)
REC SELECTOR
TAPE SELECTOR
REC SELECTOR PCB A2057A501C
(J2)
BALANCE
TO EQUALIZER PCB J105
TO EQUALIZER PCB J106
CONNECTOR (1) PCB
A2057A501D(J2)
TO TAPE PCB J6
CONNECTOR(5)PCB
A2057A501H(J2)
TO TAPE PCB J5
CONNECTOR(6)PCB
A2057A501J(J2)
TO TAPE PCB J3
CONNECTOR(4)PCB
A2057A501G(J2)

TAPE PCB A2050A503C

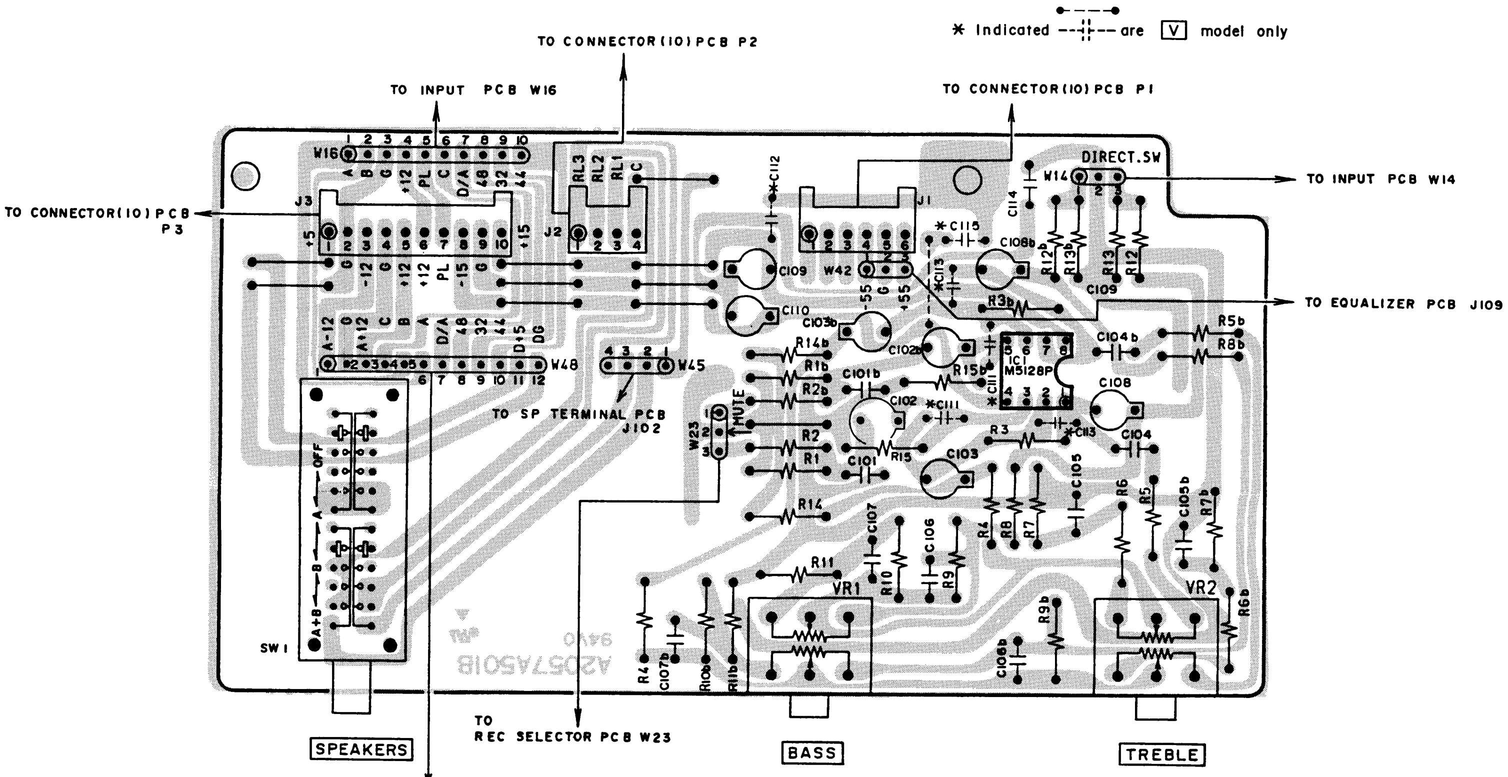

J1
J2
R50
R50b
*R53
*C53
*C53b
*R53b
R51
R51b
*C54
*R54
*C54b
*R54b
R52
R52b
C55
R55
*C55b
*R55b
L
R
REC
TAPE 1
PLAY
REC
TAPE 2
PLAY
REC
TAPE 3
PLAY
1R/L
2R/L
2R/G
3R/L
1R/R
2R/G
2R/R
3R/G
3R/R
1P/L
1P/G
3P/L
2P/G
2P/R
1P/R
3P/G
3P/R
J6
C
J5
J4
J3
B
A
TO CONNECTOR(6)
PCB P8
TO CONNECTOR(4)
PCB P6
TO CONNECTOR(5)
PCB P7
TO CONNECTOR(3)
PCB P5

* Indicated ---W--- ---||--- are V model only

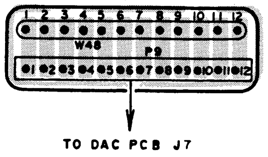

TO REC SELECTOR PCB W28
TO REC SELECTOR PCB W2
TO REC SELECTOR PCB W24
TO REC SELECTOR
TO POWER AMP PCB J12
TO POWER AMP PCB J13
A2057A501A
PROCESSOR
MUTE
W25
W24
W20
R-CH
W2
DIRECT
PROCESSOR
VR1
R13
R13b
R14b
R14
W22
W21
W1
VOLUME
DIR
TO REC SELECTOR PCB W1
TO DAC PCB W503
TO MAIN AMP ㉓ GND


INPUT PCB W25
W27
P10
TO EQUALIZER PCB J103
TO INPUT PCB W24
TO INPUT PCB W2
TO TONE CONTROL PCB W23

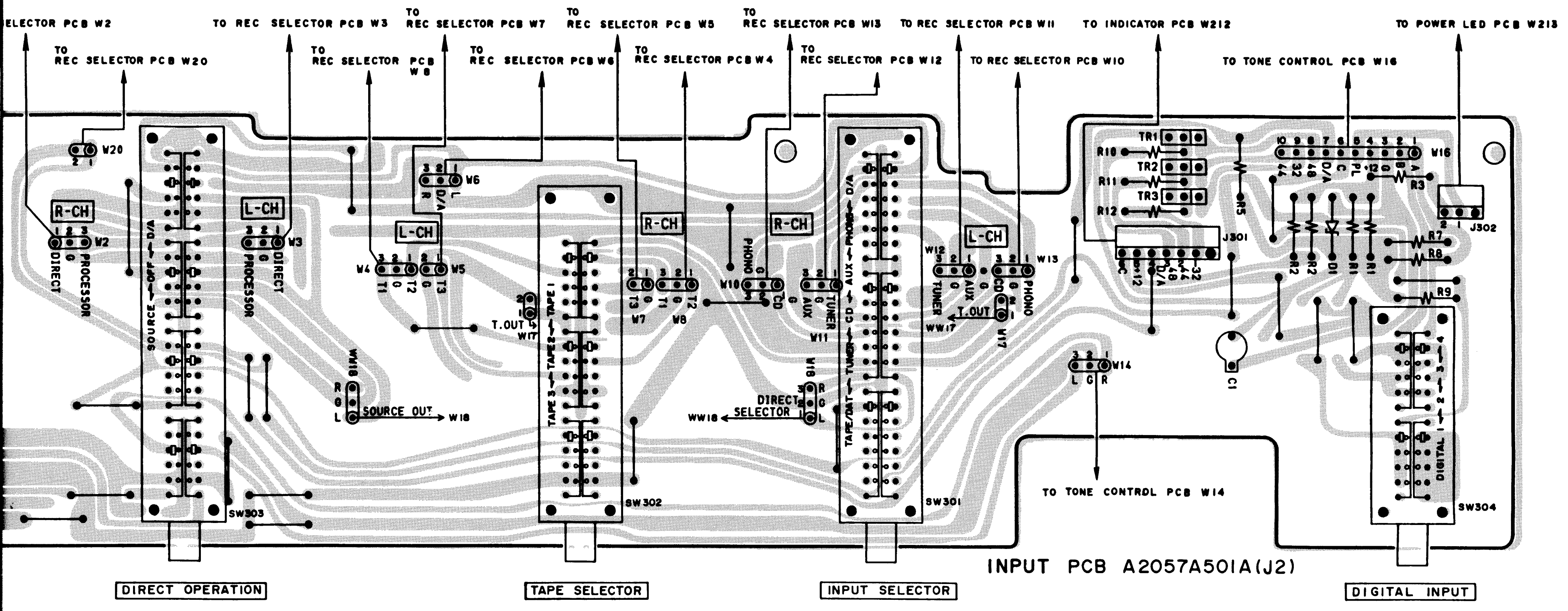
CONNECTOR (9) PCB
A2057A501N (J2)


* Indicated ---┼--- are V model only
TO CONNECTOR (10) PCB P2
TO INPUT PCB W16
TO CONNECTOR (10) PCB P1
TO CONNECTOR (10) PCB P3
TO INPUT PCB W14
TO EQUALIZER PCB J109
DIRECT.SW
W16
J3
J2
J1
W42
W48
W45
RL3
RL2
RL1
M5128P
IC1
TO SP TERMINAL PCB J102
MUTE
W23
SW1
VR1
VR2
A2057A501B
TO REC SELECTOR PCB W23
SPEAKERS
BASS
TREBLE

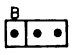
TONE CONTROL PCB A2057A501B (J2)


W48
P9
TO DAC PCB J7

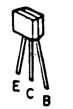
CONNECTOR (7) PCB
A2057A501K (J2)


ELECTOR PCB W2
TO REC SELECTOR PCB W20
TO REC SELECTOR PCB W3
TO REC SELECTOR PCB W8
TO REC SELECTOR PCB W7
TO REC SELECTOR PCB W6
TO REC SELECTOR PCB W5
TO REC SELECTOR PCB W4
TO REC SELECTOR PCB W13
TO REC SELECTOR PCB W12
TO REC SELECTOR PCB W11
TO REC SELECTOR PCB W10
TO INDICATOR PCB W212
TO TONE CONTROL PCB W16
TO POWER LED PCB W213
W20
R-CH
L-CH
DIRECT
PROCESSOR
SOURCE
OFF
D/A
SOURCE OUT
W18
T.OUT
W17
TAPE 3
TAPE 2
TAPE 1
TUNER
AUX
PHONO
CD
DIRECT SELECTOR
W14
J301
J302
TR1
TR2
TR3
DIGITAL
SW303
SW302
SW301
SW304
TO TONE CONTROL PCB W14
DIRECT OPERATION
TAPE SELECTOR
INPUT SELECTOR
DIGITAL INPUT

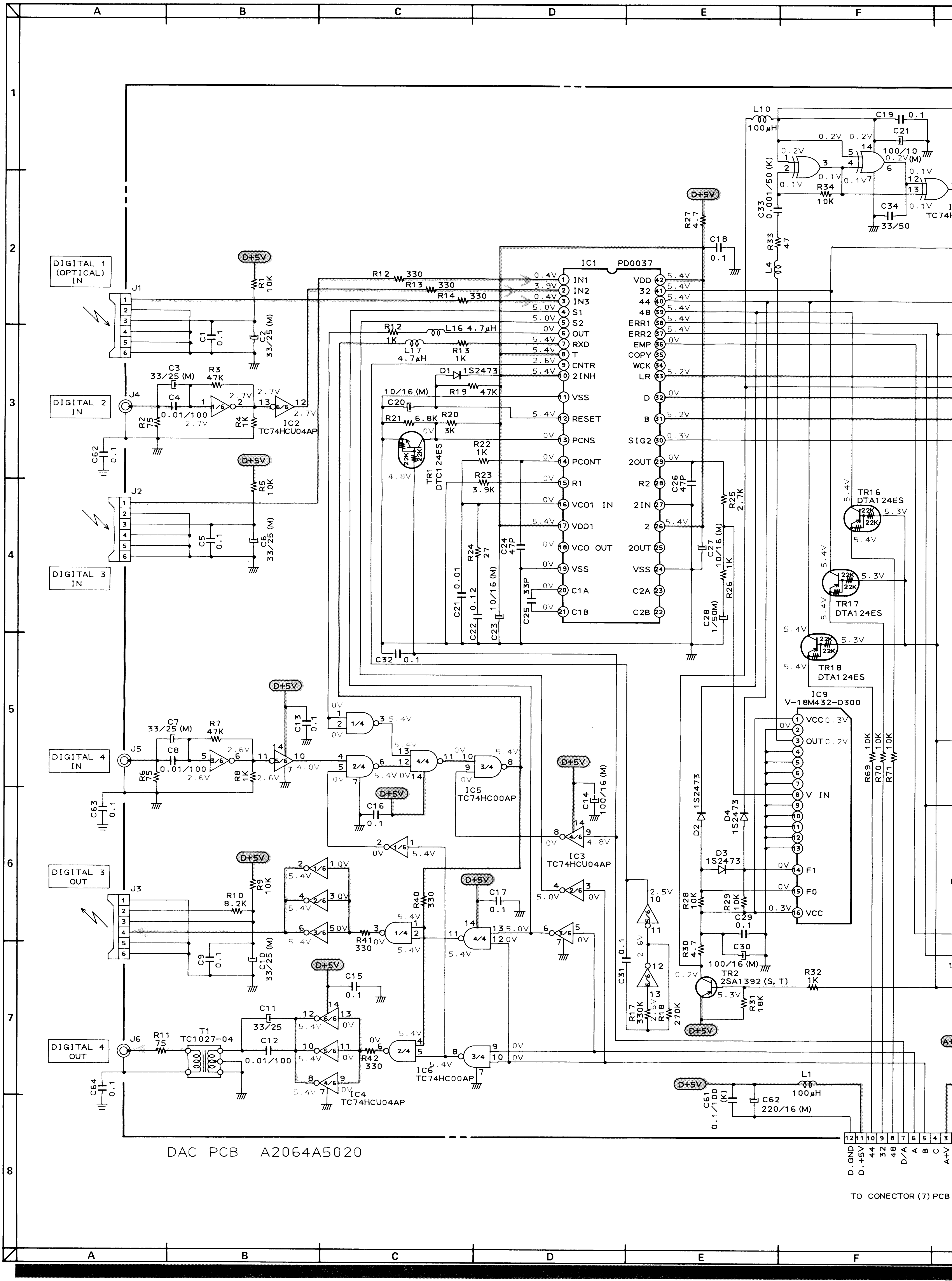
INPUT PCB A2057A501A (J2)



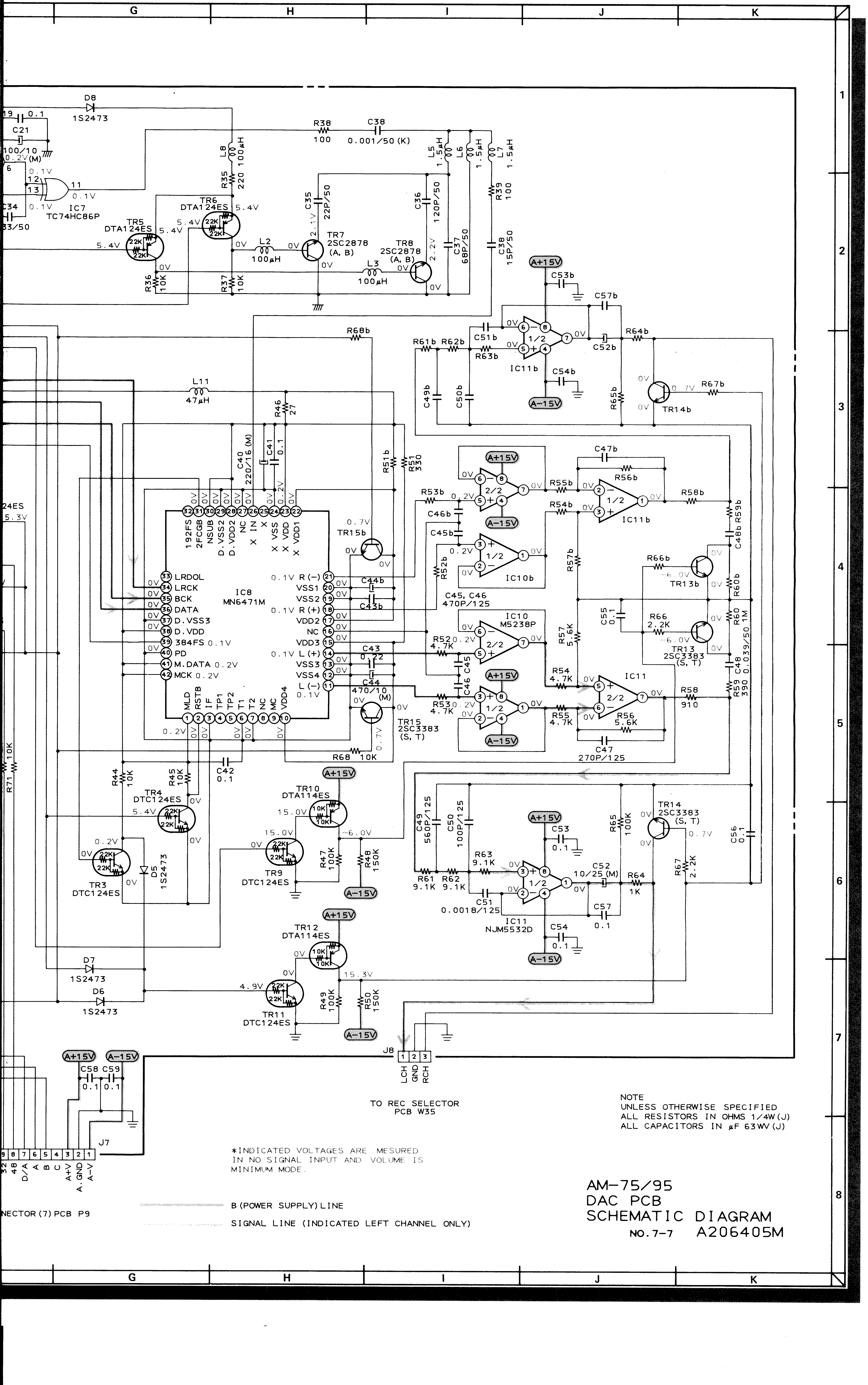
= NPN TRANSISTOR



DTA143ES


A
B
C
D
E
F
1
2
3
4
5
6
7
8
DIGITAL 1 (OPTICAL) IN
DIGITAL 2 IN
DIGITAL 3 IN
DIGITAL 4 IN
DIGITAL 3 OUT
DIGITAL 4 OUT
J1
J2
J3
J4
J5
J6
D+5V
IC1 PD0037
IN1
IN2
IN3
S1
S2
OUT
RXD
T
CNTR
2INH
VSS
RESET
PCNS
PCONT
R1
VCO1 IN
VDD1
VCO OUT
C1A
C1B
VDD
32
44
48
ERR1
ERR2
EMP
COPY
WCK
LR
D
B
SIG2
2OUT
R2
2IN
2
C2A
C2B
IC2 TC74HCU04AP
IC3 TC74HCU04AP
IC4 TC74HCU04AP
IC5 TC74HC00AP
IC6 TC74HC00AP
IC9 V-18M432-D300
VCC
OUT
V IN
F1
F0
TR1 DTC124ES
TR2 2SA1392 (S, T)
TR16 DTA124ES
TR17 DTA124ES
TR18 DTA124ES
T1 TC1027-04
D1 1S2473
D2 1S2473
D3 1S2473
D4 1S2473
L1 100μH
L4
L10 100μH
L16 4.7μH
L17 4.7μH
R1 10K
R2 75
R3 47K
R4 1K
R5 10K
R6 75
R7 47K
R8 1K
R9 10K
R10 8.2K
R11 75
R12 330
R12 1K
R13 330
R13 1K
R14 330
R17 330K
R18 270K
R19 47K
R20 3K
R21 6.8K
R22 1K
R23 3.9K
R24 27
R25 2.7K
R26 1K
R27 4.7
R28 10K
R29 10K
R30 4.7
R31 18K
R32 1K
R33 47
R34 10K
R40 330
R41 330
R42 330
R69 10K
R70 10K
R71 10K
C1 0.1
C2 33/25 (M)
C3 33/25 (M)
C4 0.01/100
C5 0.1
C6 33/25 (M)
C7 33/25 (M)
C8 0.01/100
C9 0.1
C10 33/25 (M)
C11 33/25
C12 0.01/100
C13 0.1
C14 100/16 (M)
C15 0.1
C16 0.1
C17 0.1
C18 0.1
C19 0.1
C20 10/16 (M)
C21 0.01
C21 100/10 (M)
C22 0.12
C23 10/16 (M)
C24 47P
C25 33P
C26 47P
C27 10/16 (M)
C28 1/50M
C29 0.1
C30 100/16 (M)
C31 0.1
C32 0.1
C33 0.001/50 (K)
C34 33/50
C61 0.1/100 (K)
C62 220/16 (M)
C62 0.1
C63 0.1
C64 0.1
D. GND
D. +5V
44
32
48
D/A
A
B
C
A+V
TO CONECTOR (7) PCB

DAC PCB A2064A5020


G
H
I
J
K
1
2
3
4
5
6
7
8
D8
1S2473
C21
100/10
0.2V (M)
0.1
12
13
11
IC7
TC74HC86P
C34
33/50
TR5
DTA124ES
5.4V
22K
TR6
DTA124ES
L8
100μH
R35
220
R36
10K
R37
10K
L2
100μH
L3
100μH
R38
100
C38
0.001/50 (K)
C35
22P/50
TR7
2SC2878
(A, B)
TR8
2SC2878
(A, B)
C36
120P/50
C37
68P/50
L5
1.5μH
L6
1.5μH
L7
1.5μH
R39
100
C38
15P/50
A+15V
A−15V
C53b
C57b
C51b
C52b
R61b
R62b
R63b
R64b
IC11b
C54b
C49b
C50b
R65b
R67b
TR14b
R68b
L11
47μH
R46
27
C40
220/16 (M)
C41
0.1
R51b
R51
330
IC8
MN6471M
192FS
2FCGB
NSUB
D.VSS2
D.VDD2
NC
X IN
X
X VSS
X VDD
X VDD1
LRDOL
LRCK
BCK
DATA
D.VSS3
D.VDD
384FS
PD
M.DATA
MCK
R(−)
VSS1
VSS2
R(+)
VDD2
NC
VDD3
L(+)
VSS3
VSS4
L(−)
MLD
RSTB
IF
TP1
TP2
T1
T2
NC
VDD4
TR15b
C44b
C43b
C43
0.22
C44
470/10 (M)
TR15
2SC3383
(S, T)
R68
10K
C42
0.1
R53b
C46b
C45b
R52b
C45, C46
470P/125
IC10b
IC10
M5238P
R52
4.7K
R53
4.7K
C45
C46
R54b
R55b
R56b
C47b
IC11b
R57b
R58b
R59b
C48b
R60b
R66b
TR13b
C55
0.1
R66
2.2K
TR13
2SC3383
(S, T)
R60
1M
C48
0.039/50
R59
390
R57
5.6K
R54
4.7K
R55
4.7K
R56
5.6K
C47
270P/125
IC11
R58
910
R71
10K
R44
10K
R45
10K
TR4
DTC124ES
TR3
DTC124ES
D5
1S2473
TR10
DTA114ES
10K
TR9
DTC124ES
R47
100K
R48
150K
C49
560P/125
C50
100P/125
R61
9.1K
R62
9.1K
R63
9.1K
C51
0.0018/125
C53
0.1
C52
10/25 (M)
R64
1K
C57
0.1
C54
0.1
IC11
NJM5532D
R65
100K
TR14
2SC3383
(S, T)
R67
2.2K
C56
0.1
TR12
DTA114ES
TR11
DTC124ES
R49
100K
R50
150K
D7
1S2473
D6
1S2473
C58
0.1
C59
0.1
J7
32
48
D/A
A
B
C
A+V
A.GND
A−V
NECTOR (7) PCB P9
J8
LCH
GND
RCH
TO REC SELECTOR
PCB W35

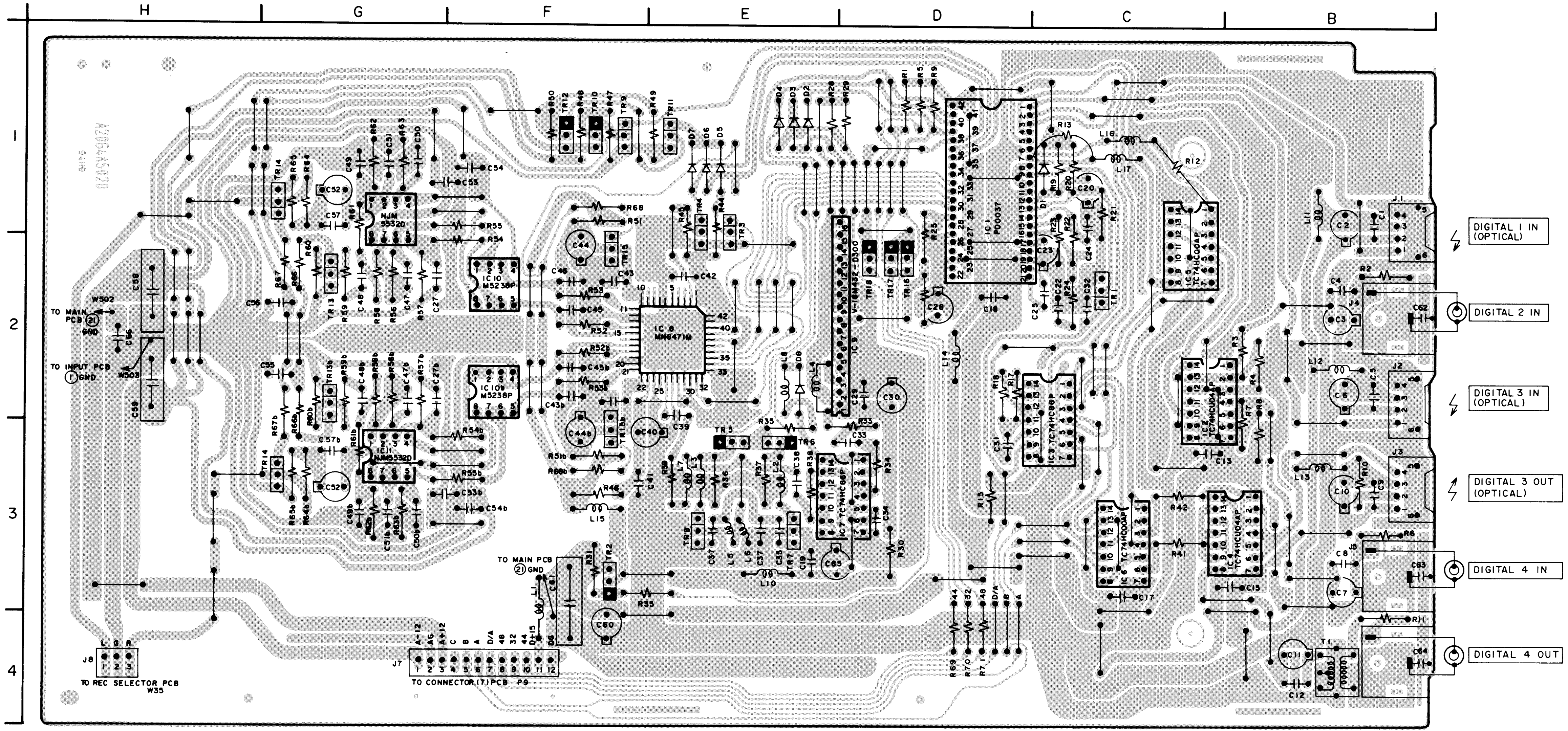
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 63WV (J)

*INDICATED VOLTAGES ARE MESURED
IN NO SIGNAL INPUT AND VOLUME IS
MINIMUM MODE.

B (POWER SUPPLY) LINE

SIGNAL LINE (INDICATED LEFT CHANNEL ONLY)

AM−75/95
DAC PCB
SCHEMATIC DIAGRAM
NO.7−7 A206405M


H
G
F
E
D
C
B
1
2
3
4
A2064A5020
DIGITAL 1 IN (OPTICAL)
DIGITAL 2 IN
DIGITAL 3 IN (OPTICAL)
DIGITAL 3 OUT (OPTICAL)
DIGITAL 4 IN
DIGITAL 4 OUT
TO MAIN PCB ㉑ GND
TO INPUT PCB ① GND
W502
W503
TO MAIN PCB ㉑ GND
J8
L G R
1 2 3
TO REC SELECTOR PCB W35
J7
TO CONNECTOR (7) PCB P9
IC 8 MN6471M
IC 1 PD0037
IC 9
NJM 5532D
M5238P
IC10b M5238P
IC11 NJM5532D
IC7 TC74HC86P
IC3 TC74HC86P
IC6 TC74HC00AP
IC4 TC74HCU04P
IC2 TC74HCU04P
IC5 TC74HC00AP

DAC PCB A2064A5020

LOCATION OF COMPONENTS

ICS

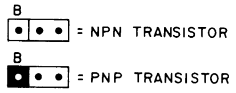
IC1	D1,2
IC2	B,C2
IC3	C2,3
IC4	B,C3
IC5	C1,2
IC6	C3
IC7	D.E3
IC8	E2
IC9	D,E2
IC10	F2
IC10b	F2
IC11	G1,2
IC11b	G3

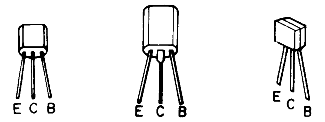
TRANSISTORS

TR1	C2
TR2	F3
TR3	E1,2
TR4	E1,2
TR5	E3
TR6	E3
TR7	E3
TR8	E3
TR9	F1
TR10	F1
TR11	E1
TR12	F1
TR13	G2
TR13b	G2
TR14	G1
TR14b	G3
TR15	F2
TR15b	F2,3
TR16	D2
TR17	D2
TR18	D2

CONNECTORS

J7	F4
J8	H4


B
= NPN TRANSISTOR
B
= PNP TRANSISTOR



2SA1392
2SC3383

DTA114ES
DTA124ES
DTC124ES

2SC2878